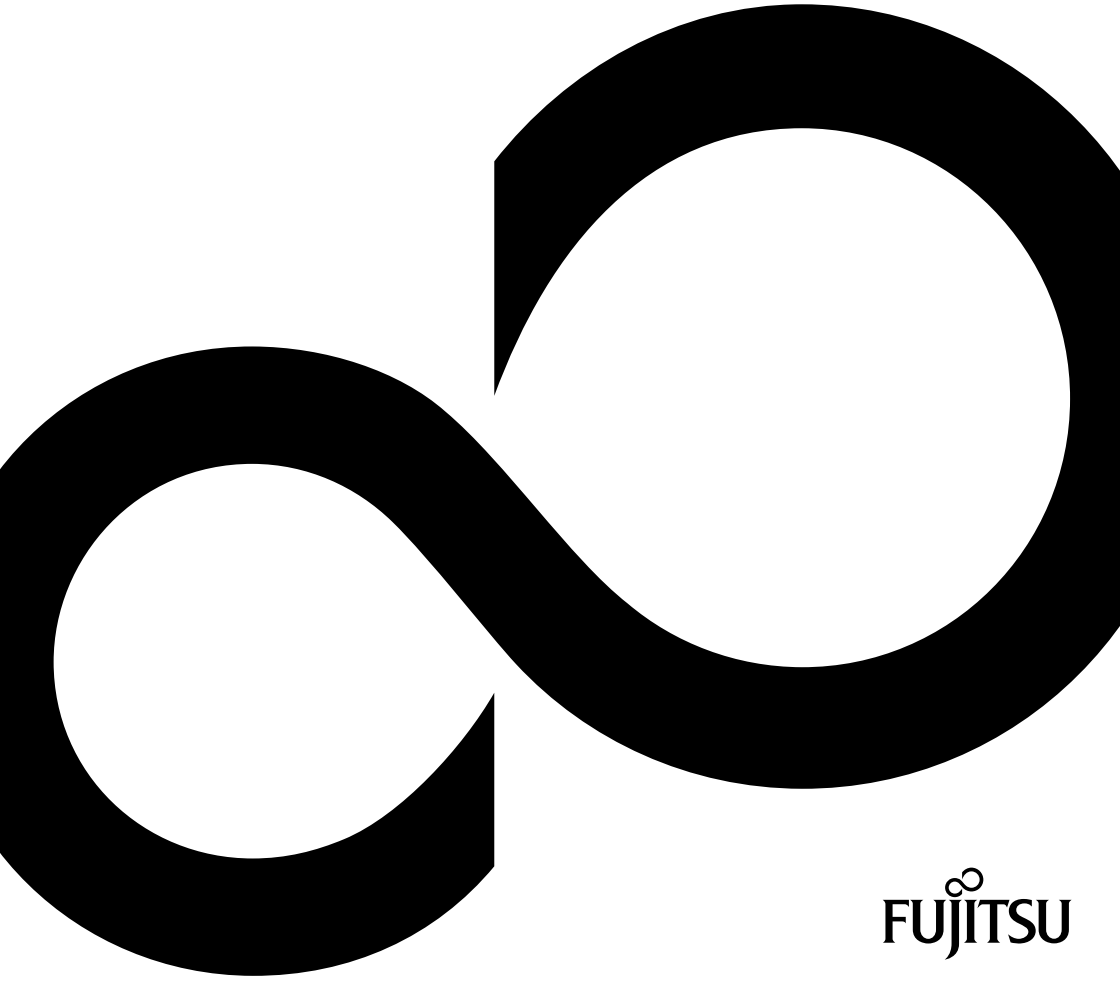
FUJITSU Tablet STYLISTIC Q739



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Should you have any technical questions, please contact:

- our Hotline/Service Desk ("http://support.ts.fujitsu.com/contact/servicedesk")
- Your sales partner
- Your sales office

We hope you enjoy working with your new Fujitsu system!

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FUJITSU Tablet STYLISTIC Q739

Operating manual

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Innovative technology

... and ergonomic design make your device a reliable and convenient companion.

The device boots very quickly, is ready for immediate use and offers a particularly long operating time because of its high capacity battery.

The user-friendly "BIOS Setup Utility" offers powerful password protection functions which can be used to control your Tablet PC's hardware and protect your system better against unauthorised use.

Information on the connections and controls for your Tablet PC can be found in chapter "Ports and controls", Page 9.

Further information

The Windows drivers for your device can be found on our Internet site. The factory installation of your device does not support any other operating system. Fujitsu Technology Solutions accepts no liability whatsoever if any other operating system is used.

Software oriented components of these instructions refer to Microsoft products, if they come within the scope of the delivery.

If you install other software products, pay attention to the operating instructions of the manufacturer.

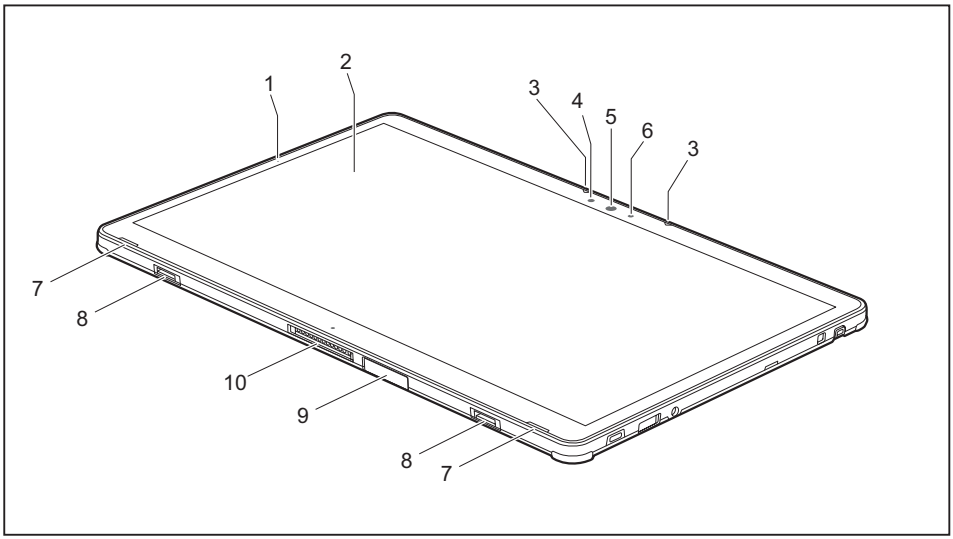
Notational conventions

	Pay particular attention to text marked with this symbol. Failure to observe these warnings could pose a risk to health, damage the device or lead to loss of data. The warranty will be invalidated if the device becomes defective through failure to observe these warnings.
	Indicates important information for the proper use of the device.
►	Indicates an activity that must be performed
↳	Indicates a result
`This font`	indicates data entered using the keyboard in a program dialogue or at the command line, e.g. your password (**`Name123`**) or a command used to start a program (**`start.exe`**)
`This font`	indicates information that is displayed on the screen by a program, e.g.: `Installation is complete.`
This font	indicates • terms and texts used in a software interface, e.g.: Click on *Save* • names of programs or files, e.g. *Windows* or *setup.exe*.
"This font"	indicates • cross-references to another section, e.g. "Safety information" • cross-references to an external source, e.g. a web address: For more information, go to "http://www.fujitsu.com/fts/" • Names of CDs, DVDs and titles or designations for other materials, e.g.: "CD/DVD Drivers & Utilities" or "Safety/Regulations" manual
Key	indicates a key on the keyboard, e.g: F10
This font	indicates terms and texts that are emphasised or highlighted, e.g.: **Do not switch off the device**

Ports and controls

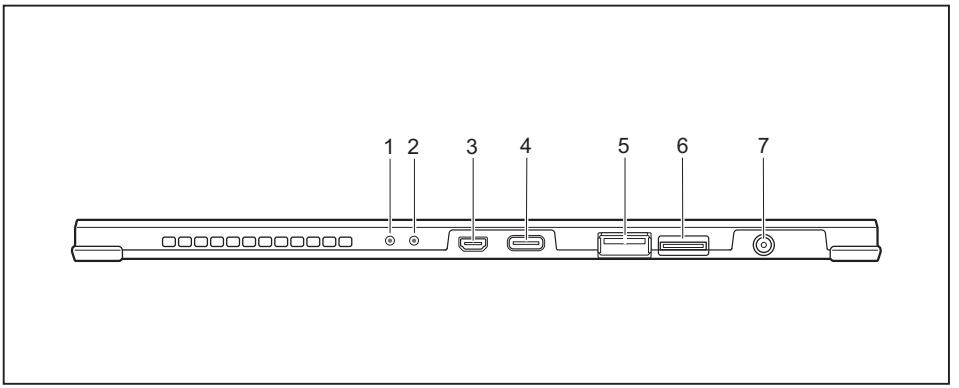
This chapter presents the individual hardware components of your device. It gives you an overview of the device's indicators and connections. Please familiarise yourself with these components before you start to work with the device.

Front



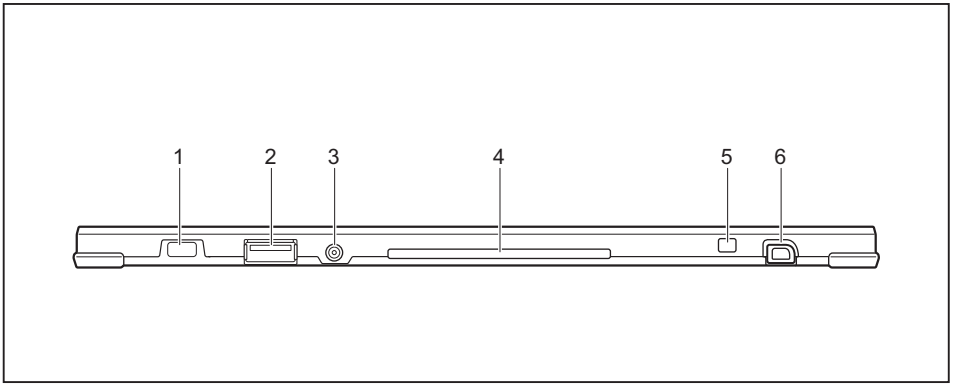
1 = Power-on indicator
2 = Touchscreen
3 = Microphone
4 = Ambient light sensor
5 = Camera
6 = Camera LED
7 = Loudspeaker
8 = Mechanical fixture for keyboard dock/cradle
9 = SIM card slot (configuration-dependent, protected by cover)
10 = Docking port

Left side



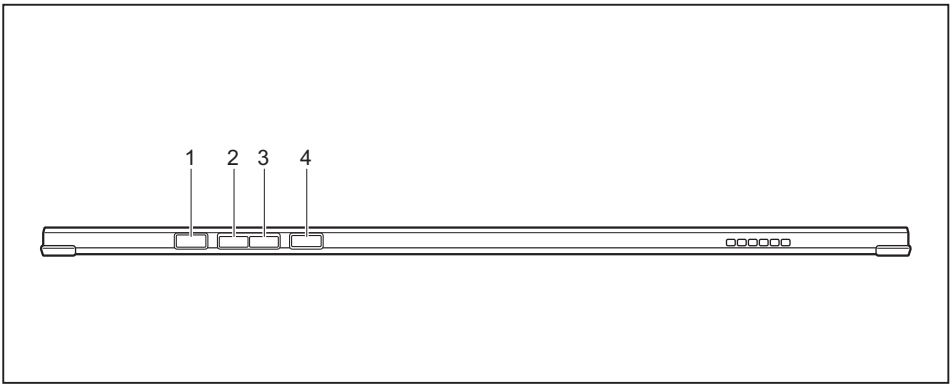
1 = Battery charging indicator
2 = Wireless indicator
3 = Micro HDMI port
4 = USB port 3.1 with charging function (USB Type-C)
5 = USB port 3.0 (USB Type-A)
6 = Memory card slot
7 = DC input connector (DC IN)

Right side



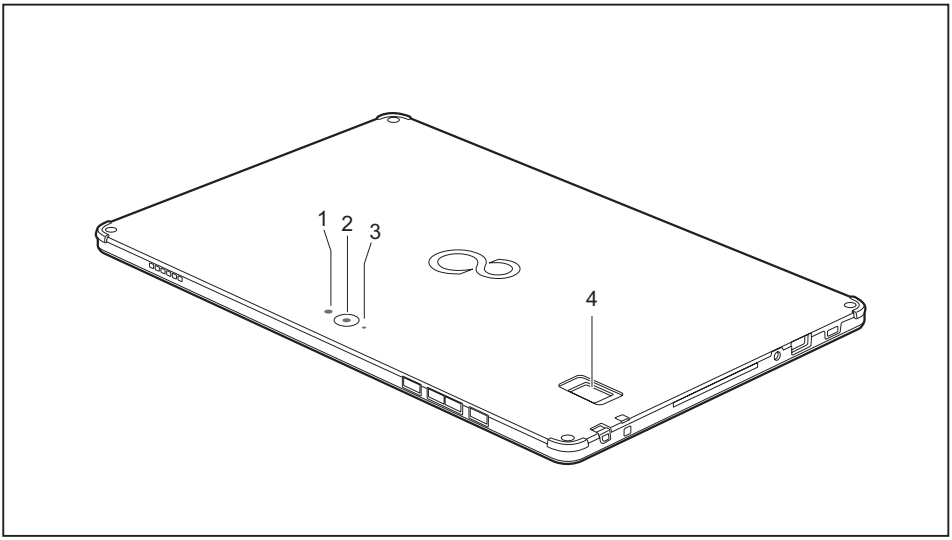
1 = Security Lock device
2 = USB port 2.0 (USB Type-A)
3 = Combined headphone and microphone port
4 = SmartCard slot (configuration-dependent)
5 = Eyelet for the optional pen cord
6 = Pen slot

Top



1 = ON/OFF button
2 = Volume up button
3 = Volume down button
4 = Shortcut button

Rear



1 = Camera light
2 = Camera
3 = Camera LED
4 = Fingerprint sensor (configuration-dependent)

Important notes

This chapter contains essential safety information which must be followed when working with your Tablet PC. The other notes provide useful information on your Tablet PC.

Safety notes

Please follow the safety notes provided in the "Safety/Regulations" manual as well as the safety notes given below.

Please pay special attention to the sections in the manual marked with the symbol on the left.

When connecting and disconnecting cables, observe the relevant notes in this operating manual.

Read the information on the ambient conditions in the "Technical data", Page 80 chapter and the information in the "First-time setup of your device", Page 16 chapter before preparing your Tablet PC for use and switching it on for the first time.

When cleaning the device, please observe the relevant notes in the section "Cleaning the Tablet PC", Page 15.

Pay attention to the additional safety notes for devices with wireless components provided in the "Safety/Regulations" manual.

This Tablet PC complies with the relevant safety regulations for data processing equipment. If you have questions as to whether you can set up the Tablet PC in the intended environment, please contact your sales point or our hotline/help desk.

Additional safety notes for devices with wireless components

If a wireless component (Wireless LAN/ Bluetooth, UMTS/LTE) is integrated in your Tablet PC, you must be sure to observe the following safety precautions when using your Tablet PC:

- Switch off the wireless components when you are in an aircraft or driving in a car.
- Switch off the wireless components when you are in a hospital, an operating room or near a medical electronics system. The transmitted radio waves can impair the operation of medical devices.
- Switch off the wireless components when you let the device get near flammable gases or into hazardous environments (e.g. petrol station, paintshops), as the transmitted radio waves can cause an explosion or a fire.

For information on how to switch wireless components on and off, see chapter "Switching the wireless components on and off", Page 35.

Protecting the display screen

Do not pour liquids on the device or wash it with a heavily soaked cloth. Do not place items on the top of the screen, or damage may occur.

During normal use of the device, small particles from the environment can become embedded in the pen tip and scratch the screen. The warranty does not cover a scratched screen.

Energy saving

Switch off your Tablet PC if you do not need to use it. Switch off connected external devices if you are not using them. If you use the energy saving functions, the Tablet PC uses less power. You will then be able to work for longer before having to recharge the battery.

Power efficiency is increased and environmental pollution reduced. You save money and help protect the environment.

Energy saving under Windows

► Make use of the power management features (see "'Using the power-management features", Page 32").

Travelling with your Tablet PC

Please observe the points listed below when travelling with your Tablet PC.

Before you travel

- ► Back up important data stored on your hard disk.
- ► Switch off the wireless component for data security reasons. With data traffic via a wireless connection, it is also possible for unauthorised third parties to receive data.

Information on activating data encryption is provided in the documentation for your wireless component.

- ► If you wish to use your Tablet PC during a flight, check with the airline whether this is allowed.

When travelling in other countries

- ► If you are travelling abroad, check that the mains adapter can be operated with the local mains voltage. If this is not the case, obtain the appropriate mains adapter for your Tablet PC. Do not use any other voltage converter!
- ► Check whether the local mains voltage and the power cable are compatible. If this is not the case, buy a power cable that matches the local conditions.
- ► Ask the appropriate government office for your travel destination, whether you may use your Tablet PC with its installed radio component. Please observe the additional safety instructions for devices with radio components, found in the handbook “Safety/formalities”.

Transporting the Tablet PC

Protect the Tablet PC from severe shocks and extreme temperatures (e.g., direct sunlight in a car).

- ► Switch off the Tablet PC.
- ► Unplug the mains adapter and all external devices from the power socket.
- ► Disconnect the mains adapter cable and the data cables for all external devices.
- ► To protect against damaging jolts and bumps, use a Tablet PC carrying case to transport your Tablet PC.

Cleaning the Tablet PC

Do not clean any interior parts yourself; leave this job to a service technician.

Only use cleaning products designed for computers. Normal household cleaners and polishes can damage the markings on the keyboard and the Tablet, the paintwork or the Tablet PC itself.

Please ensure that no liquid enters the Tablet PC.

The touchscreen is very sensitive to scratches! Only clean the display surface with a very soft, slightly damp cloth.

► Switch the Tablet PC off.

↳ The casing surfaces may be cleaned with a dry cloth. If particularly dirty, use a damp cloth that has been dipped in water mixed with mild domestic detergent and then carefully wrung out.

First-time setup of your device

Please read the chapter "Important notes", Page 12.

If your device is equipped with a Windows operating system, the necessary hardware drivers and supplied software are already pre-installed.

Before you switch on the device for the first time, connect it to the mains voltage using the mains adapter, see "Mains adapter connecting", Page 17. The mains adapter must be connected during the entire installation process.

A system test is performed when your device is first switched on. Various messages can appear. The display may remain dark for a short time or may flicker.

Please follow the instructions on the screen.

NEVER switch off your device during the first-time setup process.

The battery must be charged if you want to operate your device using the battery.

When used on the move, the built-in battery provides the device with the necessary power. You can increase the operating time by using the available energy-saving functions.

For instructions on how to connect external devices (e.g. mouse, printer) to your Tablet PC, please refer to the operating manual for your device.

Unpacking and checking the device

Should you discover any damage that occurred during transportation, notify your local sales outlet immediately!

- ► Unpack all the individual parts.
- ► Check your device for any visible damage which may have occurred during transportation.

You may need the packaging in the future, if you need to transport your device.

Selecting a location

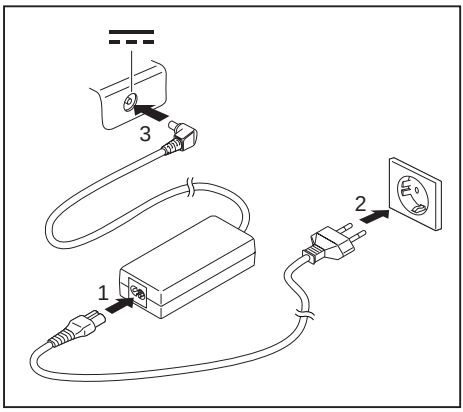
Select a suitable location for the device before setting it up. Follow the instructions below when doing so:

- Never place the device or the mains adapter on a heat-sensitive surface. The surface could be damaged as a result.
- Never place the device on a soft surface (e.g. carpeting, upholstered furniture, bed). This can result in damage caused by overheating.
- The underside of the device heats up during normal operation. Prolonged contact with the skin may become unpleasant or even result in burns.
- Place the device on a stable, flat, non-slippery surface. Please note that the rubber feet of the device may mark certain types of delicate surfaces.
- Keep other objects at least 100 mm / 4 inches away from the device and its mains adapter to ensure adequate ventilation.
- Do not expose the device to extreme environmental conditions. Protect the device against dust, moisture and heat.

Mains adapter connecting

Observe the safety notes in the enclosed "Safety/Regulations" manual.

The supplied power cable conforms to the requirements of the country in which you purchased your device. Make sure that the power cable is approved for use in the country in which you intend to use it.



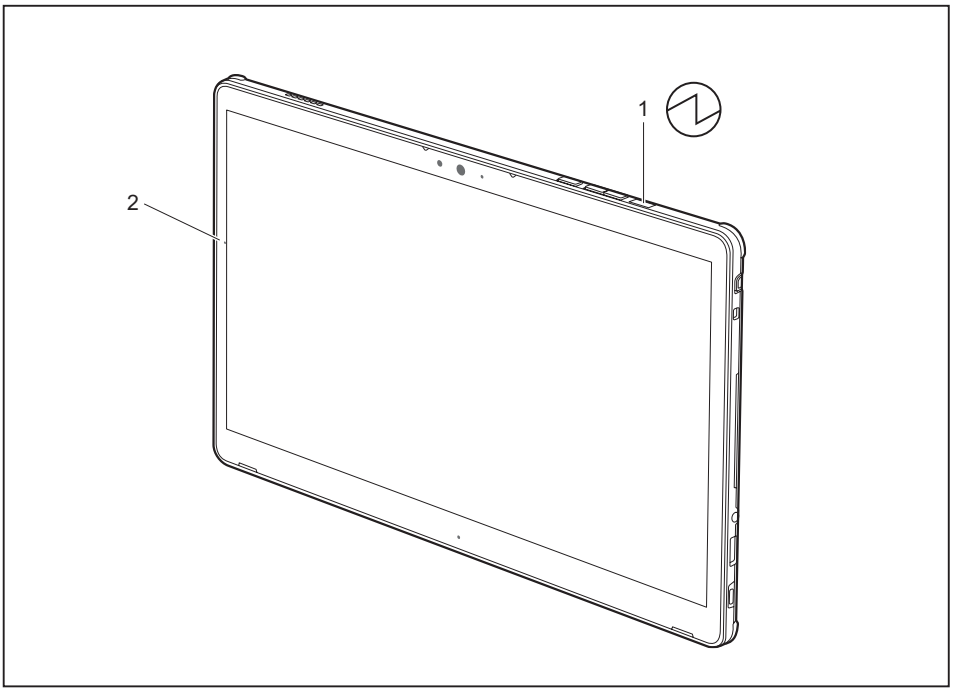
- ► Connect the power cable (1) to the power adapter provided for the device, see chapter "Technical data", Page 80.
- ► Plug the mains cable (2) into a mains outlet.
- ► Connect the mains adapter cable (3) to the DC jack (DC IN) of the device.

Switching on the device for the first time

When you switch on the device for the first time, the supplied software is installed and configured. Because this procedure must not be interrupted, you should set aside enough time for it to be fully completed and connect the device to the mains using the mains adapter.

During the installation process, DO NOT restart the device unless you are requested to do so!

To make it easier to use your device for the first time, the operating system is pre-installed on the hard disk.



► Press the ON/OFF button (1) for about one second to switch the device on.
↳ The power-on indicator (2) lights up as long as the system is switched on.
► During installation, follow the instructions on screen.

If a Windows operating system is installed on your device, you will find more information on the system and drivers, help programmes, updates, manuals etc. on the device. This information can also be found on the Internet at "http://www.fujitsu.com/fts/support/".

You can find information and help on the Windows operating system functions on the Internet at "http://windows.microsoft.com".

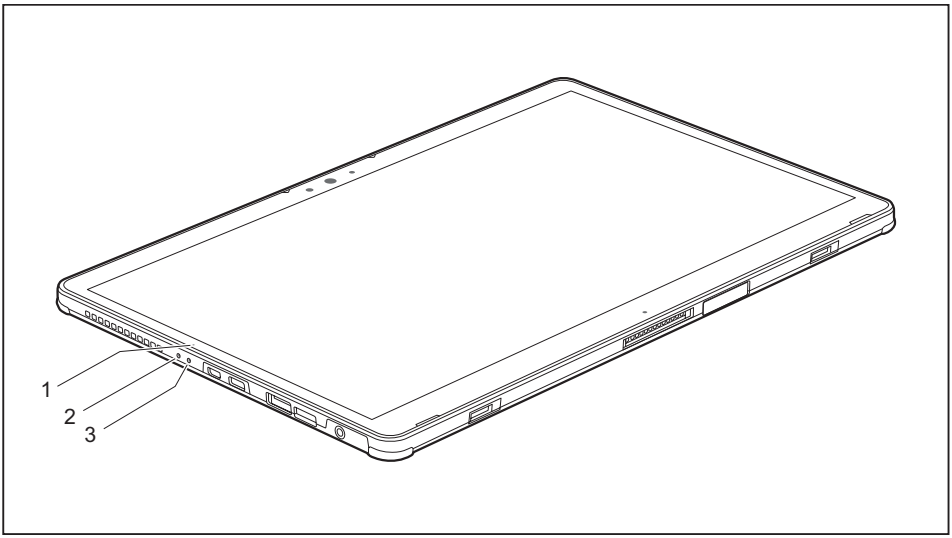
Working with the Tablet PC

This chapter describes the basics for operating your Tablet PC. You can find instructions on how to connect external devices (e.g. mouse, flash memory) to the Tablet PC in the chapter "Connecting external devices", Page 63.

Please refer to the notes in "Important notes", Page 12.

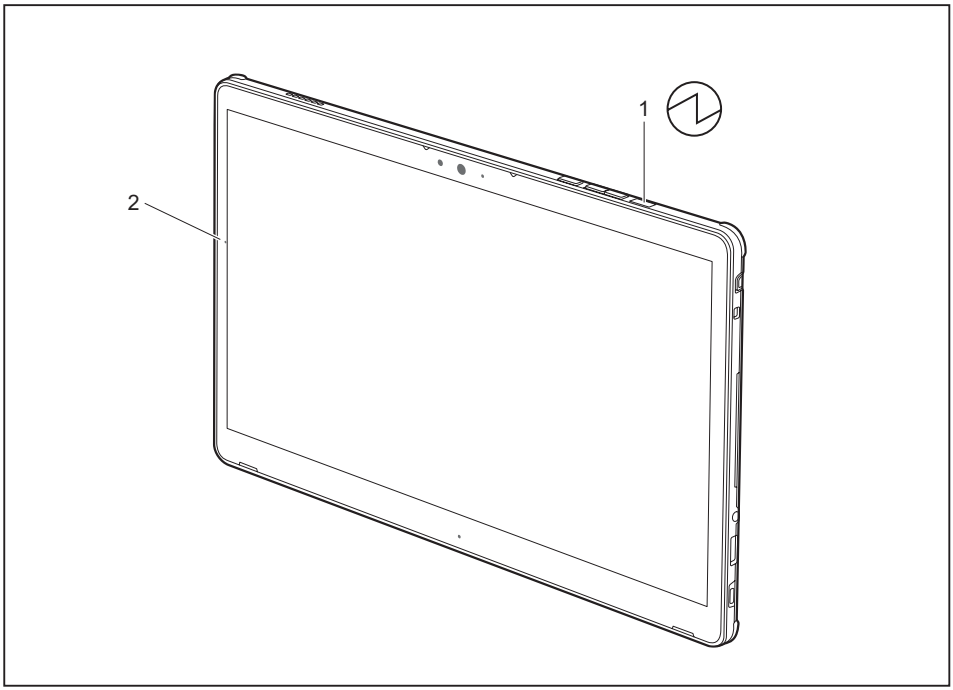
Status indicators

The status indicators (1, 2, 3) provide information about the condition of the power supply, the rechargeable battery and the wireless components.



No.	Status displays	Description
1		**Power-on indicator** • The indicator lights up white: The tablet PC is switched on. • The indicator flashes: The Tablet PC is in sleep mode (Save-to-RAM). • The indicator is not lit: The Tablet PC is switched off or in Save-to-Disk mode.
2		**Battery charging indicator** Please note: If the mains adapter is connected when the state of charge of the battery is more than 90 %, charging will not be started. When the state of charge of the battery is less than 90 %, the battery will be charged to 100 % as soon as the mains adapter is connected. • The indicator light is orange: The battery is being charged. • The indicator is not lit: The battery is not being charged (the battery is already more than 90% charged or the mains adapter is not connected).
3		**Wireless components indicator** • The indicator lights up white: The wireless components are switched on, while the Tablet PC is switched on. • The indicator is flashing: The wireless components are switched on and Wake On Wireless LAN is enabled, while the Tablet PC is in sleep mode or in save-to-disk mode, or is switched off. • The indicator is not illuminated: The wireless components are switched off.

Switching on the Tablet PC



► Press the ON/OFF button (1) for about one second to switch the device on.
↳ The power-on indicator (2) lights up as long as the system is switched on.

Programming the ON/OFF button

You can program the ON/OFF button:

Operating system	Menu
Windows 10	*Control Panel - Hardware and Sound - Power Options*

If you have assigned a password, you must enter this when requested to do so, in order to start the operating system. Detailed information can be found in the chapter "Security functions", Page 53.

Switching the Tablet PC off

Back up your data and close all applications before you switch off your device. Otherwise data might be lost.

- ► Shut down the operating system correctly.
- ► If the Tablet PC does not switch off automatically, press the ON/OFF button for about five seconds.

Handwriting recognition

For detailed information on handwriting recognition, see the documentation on your operating system.

At present, handwriting recognition under Windows supports the following languages:

English, German, French, Italian, Japanese, Korean, Chinese (traditional and simplified), Dutch, Portuguese, Spanish, Brazilian, Norwegian (Bokmål and Nynorsk), Swedish, Finnish, Danish, Polish, Rumanian, Serbian (Cyrillic and Latin script), Catalan, Russian, Czech and Croatian.

Under Windows you can set the required language under *Control Panel – Time, Language and Region – Language*.

Touch screen

Information on screen resolution can be found in the section "Screen resolutions for integrated screen and external screens", Page 82.

High-quality LCD screens (TFT) are installed in Fujitsu Tablet PCs. For technical reasons, these screens are manufactured for a certain resolution. An optimum and sharp image can only be ensured with the resolution intended for the particular screen. A screen resolution which differs from the specification can result in an unclear image.

The screen resolution of your Tablet PC's touchscreen is optimally set at the factory.

With the present standards of production technology, absolutely flawless screen images cannot be guaranteed. There may be a few constantly light or dark pixels (picture elements) on the screen. The maximum permitted number of such faulty pixels is specified in the international standard ISO 9241-307 (Class II).

Example:

A monitor with an HD resolution of 1280 x 1024 has 1,310,720 pixels. Each pixel consists of three subpixels (red, green and blue), so there are almost 3.9 million subpixels in total. According to ISO 9241-307 (class II), a maximum of 3 light and 3 dark pixels and in addition 7 light or 13 dark subpixels or an equivalent mix (1 light subpixel counts as 2 dark subpixels) are allowed to be defective.

Pixel	A pixel consists of 3 subpixels, normally red, green and blue. A pixel is the smallest element that can be generated by complete functionality of the display.
Subpixel	A subpixel is a separately addressable internal structure within a pixel that enhances the pixel function.
Cluster	A cluster contains two or more defective pixels or subpixels in a 5 x 5 pixel block.

Background lighting

LCD screens are operated with background lighting. The luminosity of the background lighting can decrease over the period of use of the Tablet PC. However, you can set the brightness of your screen individually.

Ambient light sensor

If your Tablet PC was shipped with the *Windows* operating system, the screen brightness is regulated by the ambient light sensor according to the particular light conditions. This results in optimum readability and longer battery life at the same time.

If your Tablet PC was shipped with Windows 10, the adaptive brightness setting is enabled. To change the ambient light sensor settings, select *Control Panel - System and Security - Power Options - Change plan settings - Change advanced power options - Display - Activate adaptive brightness setting*.

Synchronising the display on the touchscreen and an external monitor

In Windows 10 you can proceed as follows to set the output type:

- ► Wipe your finger over the screen starting from the right-hand edge.
- ► Select *All settings*.
- ► Look for the keyword "project".
- ► Select the required function.

Select display orientation (portrait or landscape orientation)

You can choose to use either portrait or landscape orientation for the display, or whether the display orientation should automatically adapt to the orientation of the Tablet PC.

You can change these settings under *Control Panel - Hardware and Sound - Windows Mobility Center / Rotate screen*.

In Settings there are profiles saved for operation with different screen orientations. These profiles have preset standard configurations that can be modified as desired.

These settings do not just affect the screen settings on the Tablet PC, but also those on externally connected monitors.

Use the touch screen

You can execute commands as follows:

- using the stylus pen (supplied with your device).
- using your fingers

Using fingers

You can execute certain commands by using your finger tip on the touchscreen of your device.

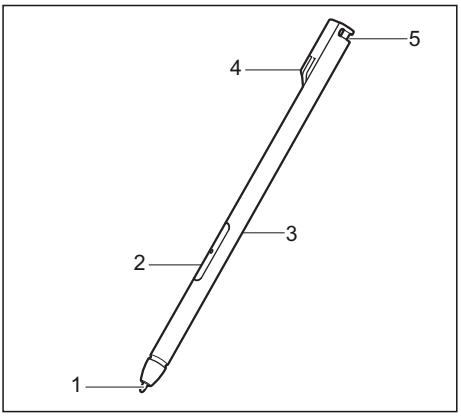
Everything which you can select or activate using your finger tip can also be selected or activated using the pen.

Calibrate the monitor for finger input

For instructions on how to calibrate your device to use the touch screen, please refer to chapter "Calibrating the pen", Page 28.

Please note: There are separate calibration programs available for calibrating the pen and for calibrating finger tip operation. Do not use the calibration tool for the pen to calibrate finger tip operation.

Using the stylus pen



1 = pen tip
2 = pen button (= delete function)
3 = pen button (= right mouse button)
4 = charging contacts
5 = eyelet for optional pen strap

You can use the pen on your Tablet PC as an electronic writing implement to select items, and to navigate through programs on it. Programs that support handwriting recognition also allow you to write characters directly on the screen with the pen. You can also use the pen as a drawing tool.

A pen tether is available as an optional extra and you can use this to tie the eyelet on the pen to the eyelet on the Tablet PC.

Use only the pen provided with your Tablet PC. Do not use substitutes that were not designed for your Tablet PC. Replace the stylus tip if it is worn. The warranty does not cover a scratched screen.

While writing, you should take care not to scratch the surface of the display (e.g. with a wristwatch or bracelet).

The Tablet PC's pen is an electronic instrument that can be damaged if used improperly. Handle the pen with care.

The following list contains guidelines for proper pen handling:

- Do not gesture with the pen.
- Do not use the pen as a pointer.
- Do not use the pen on surfaces other than the screen of the Tablet PC.
- Do not try to turn the thumb grip on the pen. The grip is used to place the pen in its slot or to remove it from the slot.
- Never store the pen with the tip bearing the weight of the pen (e.g. with the tip down in a pen holder). If the pen is stored with the tip pointing down, this may have an adverse effect on the pen mechanism (particularly at high temperatures). In this case the pen tip may react as though it is constantly being pressed down. To avoid damage, the pen should be stored in the slot when not in use.

The pen can be influenced by electromagnetic fields (cursor quivers or jumps). There may be a few areas on the screen where the cursor quivers slightly in spite of pressing the pen down firmly.

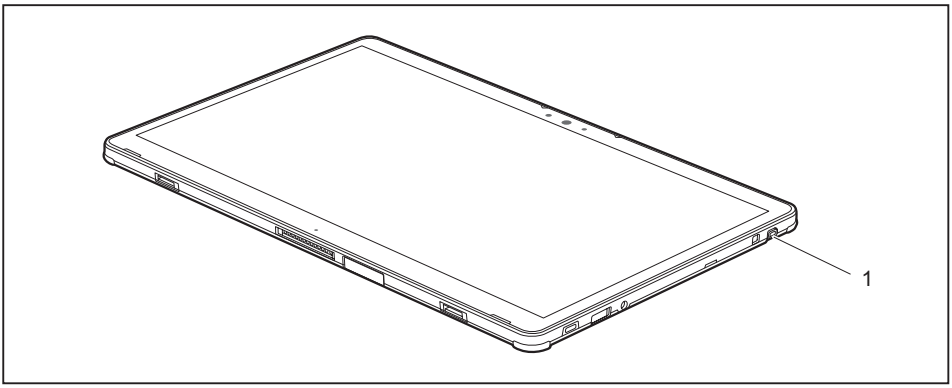
The screen responds to entries made with the tip of the finger or the pen when the tip of the finger or the pen is in direct contact with the screen.

You can use the pen to run all functions for which you would otherwise use a mouse.

Handling	Mouse	Pen
Selecting menu items	Click with the left-hand mouse button.	Touch the menu entry with the pen tip.
Starting programs	Double click with the left-hand mouse button.	Briefly touch the program icon twice with the pen tip.
Moving an object/window	Drag with the left-hand mouse button held pressed.	Place the pen tip directly on the object/window. Hold the pen tip pressed against the screen. Move the desired object/window.
Opening a context menu	Click with the right-hand mouse button.	Place the pen directly on the required element and hold the pen pressed against the screen.
Moving the cursor	-	Place the pen tip directly on the screen.

Pen position

To prevent the pen from becoming jammed in its slot (1), make sure that you always insert the pen into its slot the correct way round (the charging contacts on the pen point towards the eyelet for the pen cord).



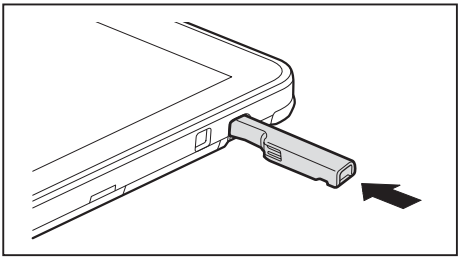
Energy saving functions of the pen

To save energy, the pen automatically switches off after 10 minutes of inactivity and is then in power saving mode.

The pen automatically returns to normal operating mode after the next contact with the pen tip.

Charging the pen battery

The pen contains an integrated battery, which is automatically charged when the pen is fully inserted into its slot. The pen is also charged when the Tablet PC is in power saving mode or is switched off. A charging time of approximately 15 seconds is sufficient to enable to pen to be used for 90 minutes again.



- ► Insert the pen fully in the slot.
- ↳ After a charging period of approximately 5 minutes, the pen battery is fully charged.

Setting the pen

Operating system	Menu
Windows 10	You can make various settings for the pen under *System Control - Hardware and Sound - Pen and Touch*.

Calibrating the pen

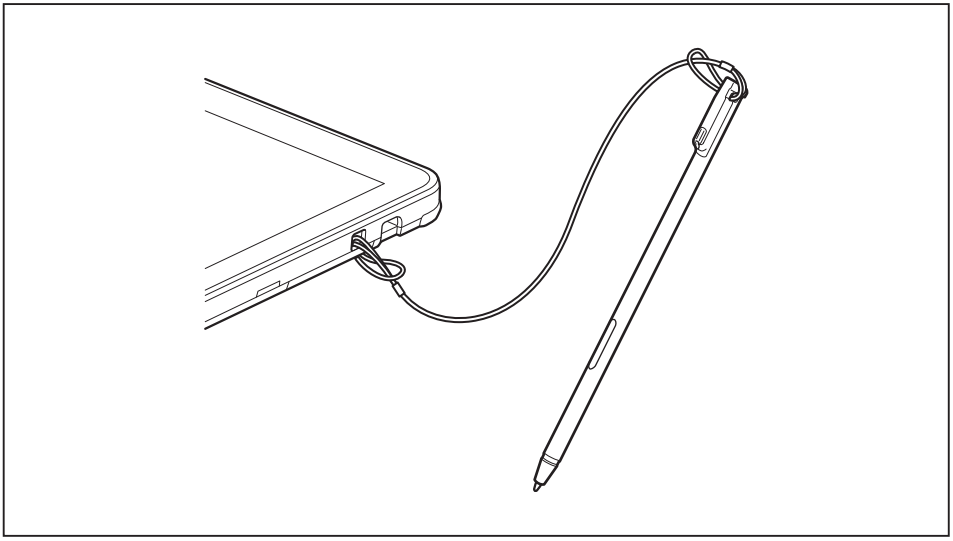
Via the operating system, you must calibrate your tablet PC before first use with the pen, so that it recognises the pen as accurately as possible.

You should also always repeat the calibration if the co-ordination between the pen and cursor movement deteriorates.

Operating system	Menu
Windows 10	To calibrate, call up the *Hardware and Sound / Tablet PC Settings* function in the Control Panel. You need to calibrate both portrait and landscape formats.

Installing a pen tether

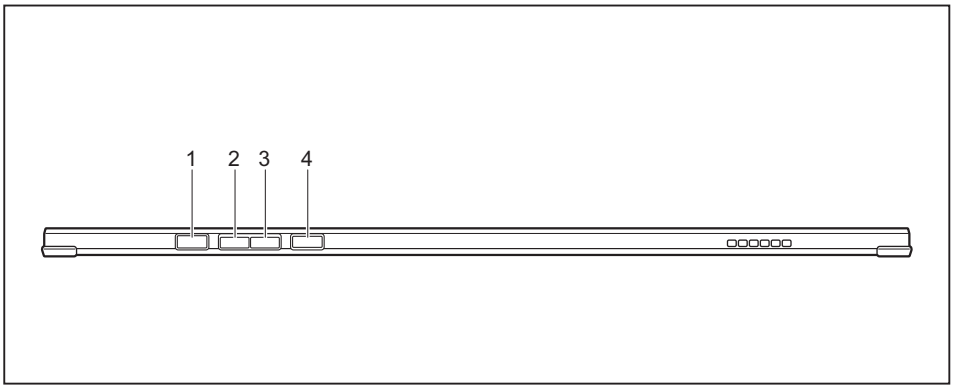
You should attach the pen with a pen tether to prevent accidentally dropping or losing it.



► Secure one end of the pen tether to the pen and the other end of the pen tether to the Tablet PC.

Tablet buttons

In addition to the ON/OFF switch (1), your Tablet PC is also equipped with three tablet buttons.



No.	Description	Functions
2	Volume up button	Increase the volume
3	Volume down button	Decrease the volume
4	Shortcut button	Start function manager or screen shot function

If the ON/OFF switch of the Tablet PC is pressed in combination with the volume-down button, this corresponds to the function of the key combination Ctrl + Alt + Del on a keyboard.

Camera

Your device has two cameras: one on the front of the device and one on the back.

Depending on the software used, you can use your camera to take pictures, record video clips or take part in web chats.

- The picture quality depends on the lighting conditions and the software being used.
- You can only use the camera with a particular application (e.g. an Internet telephony program or a video conferencing program which supports a camera).
- When using the camera, the Tablet PC support must not shake.
- The camera automatically adjusts itself to the current light level. For this reason the touchscreen may flicker while the light level is adjusted.

Further information on use of the camera and additional settings can be found in the Help function of the program which uses the camera.

Rechargeable battery

For mobile use, the built-in battery provides the Tablet PC with the necessary power. You can increase the life of the battery by caring for the battery properly. The average battery life is around 500 charge/discharge cycles.

You can extend the battery life by taking advantage of the available energy saving functions.

Charging and maintaining the battery

The rechargeable battery of the Tablet PC can only be charged when the ambient temperature is between 5 °C / 41 °F and a maximum temperature of 35 °C / 95 °F.

You can charge the battery by connecting the Tablet PC to the mains adapter (see "Mains adapter connecting", Page 17).

If the mains adapter is connected when the state of charge of the battery is more than 90%, charging will not be started. When the state of charge of the battery is less than 90%, the battery will be charged to 100% as soon as the mains adapter is connected.

If the battery is running low you will hear a warning alarm. If you do not connect the mains adapter within five minutes of the warning alarm described above, your Tablet PC will switch off automatically.

monitoring the battery charging level

In the system bar / status display there is a battery symbol shown for monitoring the battery capacity. The battery symbol shows you the battery charge.

Using the power-management features

The Tablet PC uses less power when the power management features are enabled. You will then be able to work longer when using the battery before having to recharge it.

Power efficiency is increased and environmental pollution reduced. By choosing the best power options, you can make significant savings and at the same time help protect the environment.

► Select the power management functions in your Control Panel.

When the Tablet PC is in power saving mode, you must remember the following:

During power saving mode, open files are held in the main memory or in a swap file on the hard disk.

Never switch off the Tablet PC while it is in a power saving mode. If the built-in battery is nearly flat, close the open files and do not go into power saving mode.

If you do not intend to use your Tablet PC for a long period of time:

► Exit the power saving mode if necessary via touching the screen or by switching on the Tablet PC.
► Close all opened programs and completely shut down the Tablet PC.

Memory cards

Your Tablet PC is equipped with an integrated memory card reader. You can use memory cards to increase the storage of your Tablet PC.

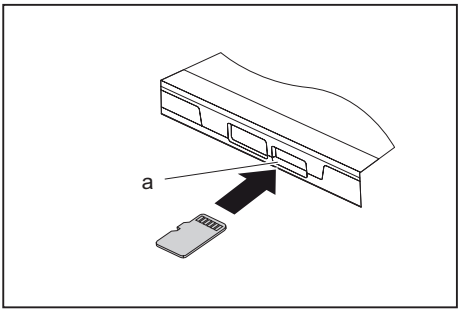
Observe the manufacturer's instructions when handling the memory cards.

Supported formats

It supports the following formats:

- Micro Secure Digital (microSD™ Card)
- microSDHC
- microSDXC

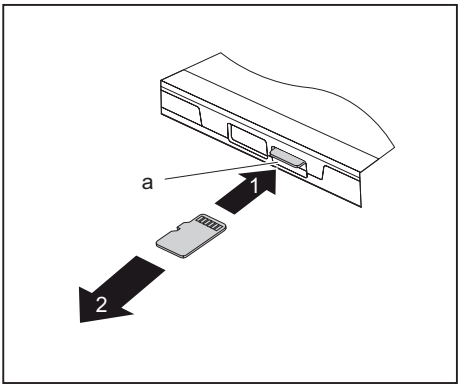
Inserting the memory card



► Carefully push the memory card into the slot until you feel it click into place. The label area must face the front of the Tablet PC. Do not apply any force, otherwise the delicate contact surfaces could be damaged.

Removing the memory card

To avoid any loss of data, always follow the correct procedure for removing the card (see the documentation for your operating system).



► Press the edge of the memory card so that the memory card jumps (1) slightly out of the slot (a).

► Pull the memory card out of the slot (a) in the direction of the arrow (2).

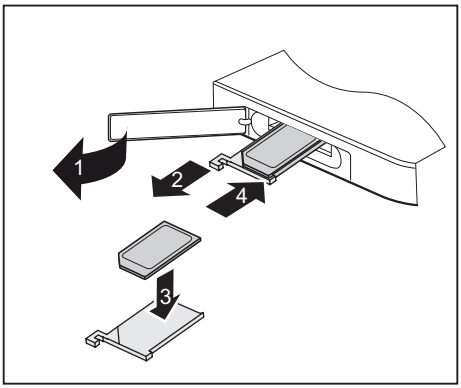
SIM card (configuration dependent)

A SIM card (Subscriber Identity Module) is a chip card which is inserted in a mobile telephone or Tablet PC and, together with an integrated UMTS/LTE module, enables access to a mobile network.

Please note that the SIM card format must be micro-SIM (3FF). Other SIM card formats, such as full-size (1FF), mini-SIM (2FF) or nano-SIM (4FF) do not fit in the SIM card slot of your tablet PC.

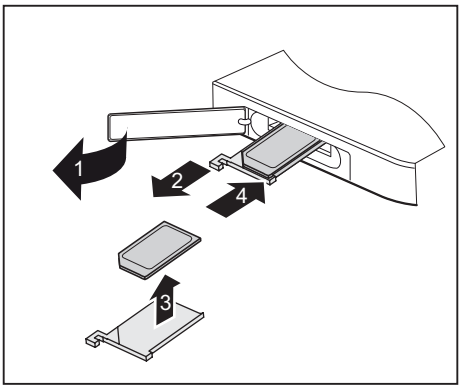
Please do not insert any other format of SIM card as they could twist or even damage the system.

Inserting the SIM card



- ► Open the slot cover (1).
- ► Pull the SIM card holder out of the slot (2).
- ► Insert the SIM card (3) in the SIM card holder as shown.
- ► Push the SIM card holder back into the slot (4).
- ► Close the slot cover.

Removing the SIM card



- ► Open the slot cover (1).
- ► Pull the SIM card holder out of the slot (2).
- ► Remove the SIM card from the SIM card holder (3).
- ► Push the SIM card holder back into the slot (4).
- ► Close the slot cover.

Wireless LAN / Bluetooth / LTE radio components (configuration dependent)

The installation of radio components not approved by Fujitsu will invalidate the certifications issued for this device.

Switching the wireless components on and off

wireless components are switched on and off via the corresponding functions of the operating system.

► To switch wireless components on and off individually, select *Settings – Change PC settings – Network – Airplane mode*.

Setting up WLAN access

- Requirement: A WLAN must be available and you must have the corresponding access information.

Information on configuring the WLAN access can be found in the documentation for your operating system.

Access via LTE (configuration dependent)

If you ordered an integrated LTE module with your system, you can enjoy optimum reception and maximum energy efficiency without awkward cables or antennas. An installed LTE module is ready for immediate use.

If you did not order an LTE module, you can purchase the accessories for LTE reception from your retailer or your Fujitsu Technology Solutions dealer.

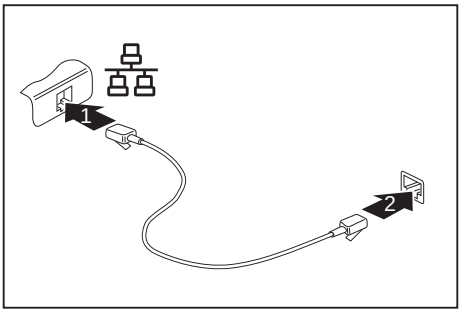
For information about connecting with the LTE network, please see the documentation for the hardware that you will be using.

You can connect your device to the internet via LTE. To do this, use one of the following connection types:

- Integrated LTE module (the type depends on your model variant)
- a USB dongle (a USB stick with your mobile phone provider's SIM card)
- a mobile end-device (e.g. mobile phone with Bluetooth or cable connection)

Ethernet and LAN (optional, only with cradle, keyboard dock or adapter cable)

With optionally available accessories, you can establish a connection to a local network (LAN = Local Area Network).



- ► Connect the network cable to the LAN port of the accessory (1).
- ► Connect the network cable to your network connection (2).

Your network administrator can help you to configure and use the LAN connections.

The network cable is not included in the delivery scope. This type of cable can be obtained from a specialist dealer.

Use a shielded network cable (CAT 5e).

GPS

Whether your device has this function or not depends on the device configuration chosen.

Accessories for your Tablet PC (optional)

The following accessories are available for your Tablet PC:

- Cradle for charging the Tablet PC and with additional ports
- Keyboard dock (with LAN port and keyboard with background lighting)
- Protective TPU folio case with shoulder and hand straps
- Micro HDMI - VGA adapter cable
- USB - LAN adapter cable

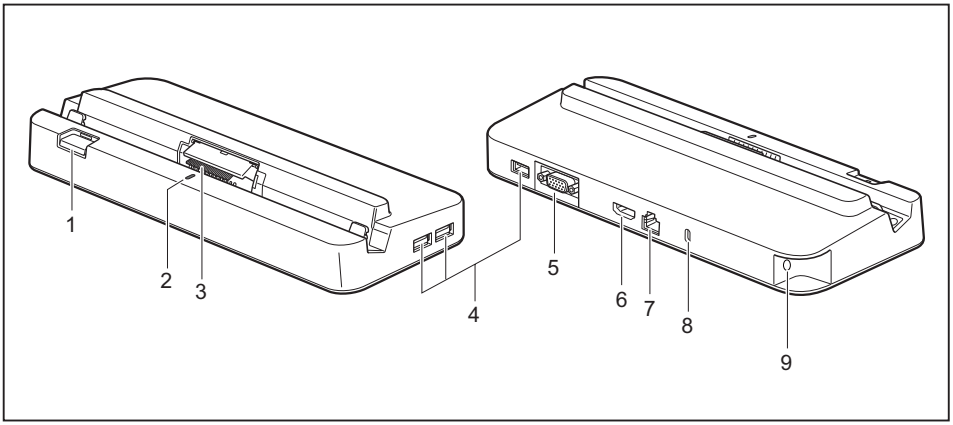
The following sections provide more information on handling the accessories.

Your cradle (optional)

As well as providing rapid charging, your cradle is a device which helps you to quickly connect your tablet PC to your peripheral devices, such as a display, keyboard, mouse, etc. You only need to dock the tablet PC in order to work with your peripheral devices.

When the Tablet PC is mounted on the cradle, only USB cables with a length of up to 3 m are supported at all the USB ports.

Cradle components



1 = Release button
2 = Status LED
3 = Connector on the cradle for the docking port of the Tablet PC
4 = USB 3.1 Gen1 port (Type-A)
5 = VGA monitor port
6 = Display port
7 = LAN port
8 = Security Lock device
9 = DC input connector (DC IN)

The status LED (2) of the cradle lights up as soon as the Tablet PC is connected to the cradle, even if the Tablet PC is switched off.

Setting up the cradle

Select a suitable location for the cradle before setting it up. Follow the instructions below when doing so:

- Place the cradle on a flat, stable, nonslippery surface.
- Never place the cradle and the mains adapter on a heat-sensitive surface.
- Do not expose the cradle to extreme environmental conditions.
- Protect the cradle from dust, humidity and heat.

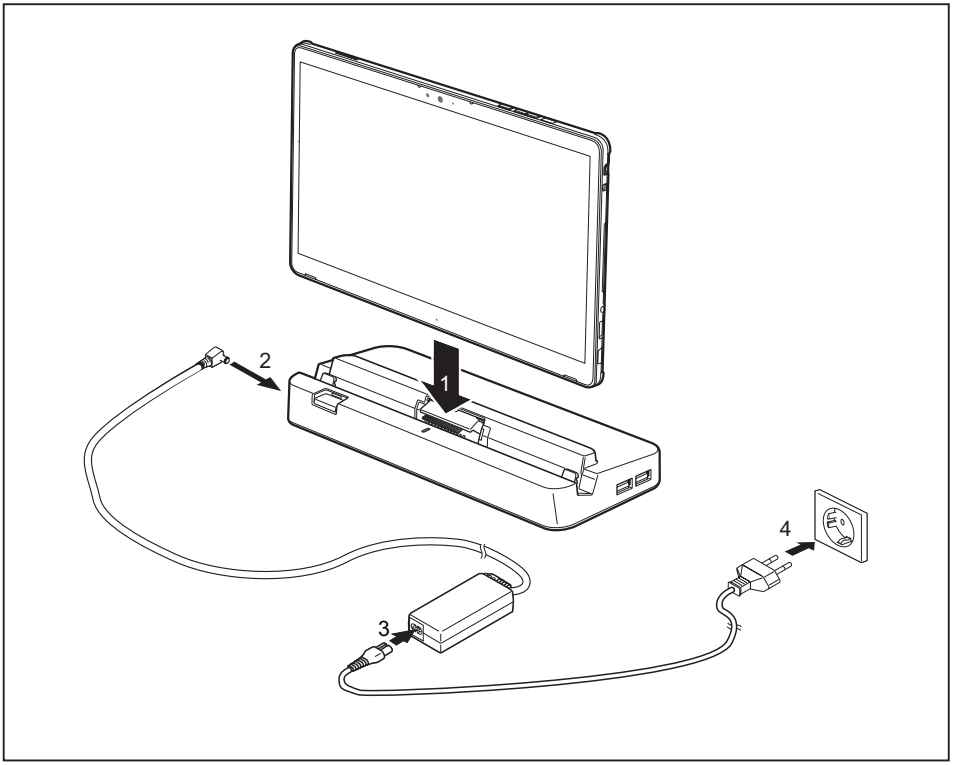
Connecting the Tablet PC to the cradle

It is possible to connect the Tablet PC to the cradle while it is operating.

Unplug the mains adapter from the Tablet PC before you connect the Tablet PC to the cradle.

If the tablet PC is connected to the cradle, you must connect the mains adapter to the cradle in order to be able to use all of the cradle's functions.

- ► Remove the power plug of the mains adapter from the mains socket.
- ► Pull the mains adapter cable out of the DC jack (DC IN) of the Tablet PC.

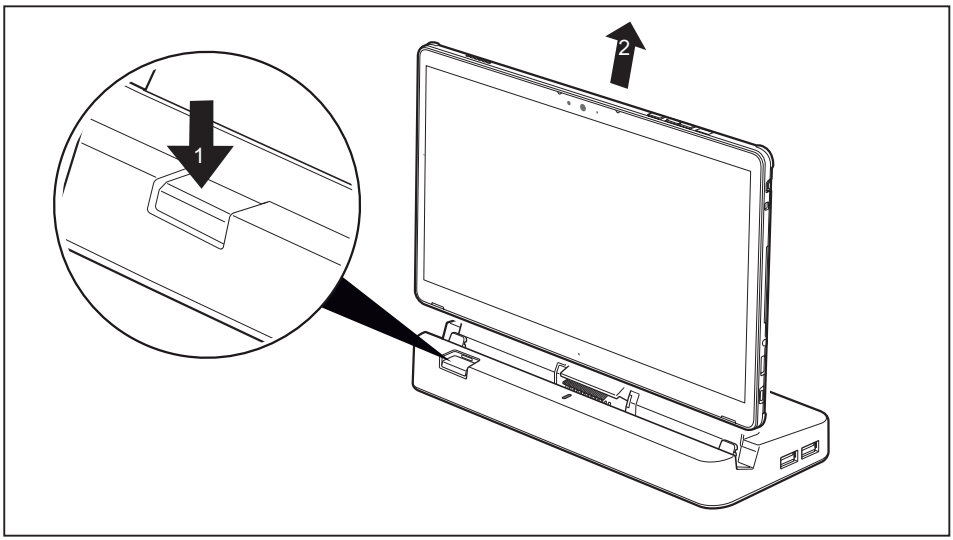


- ► Position the Tablet PC so that it lies on the surface of the tray on the cradle.
- ► Push the tablet PC onto the cradle in the direction of the arrow (1) until you feel it engage in the connector and until the release button has returned to its original position.
- ► Plug the DC output connector on the mains adapter into the DC input connector (DC IN) on the cradle (2).

- ► Connect the power cable to the power adapter provided for the cradle (3), see chapter "Technical data", Page 80.
- ► Plug the power cable into the mains socket (4).

Disconnecting the Tablet PC from the cradle

It is possible to separate the Tablet PC from the cradle during operation.

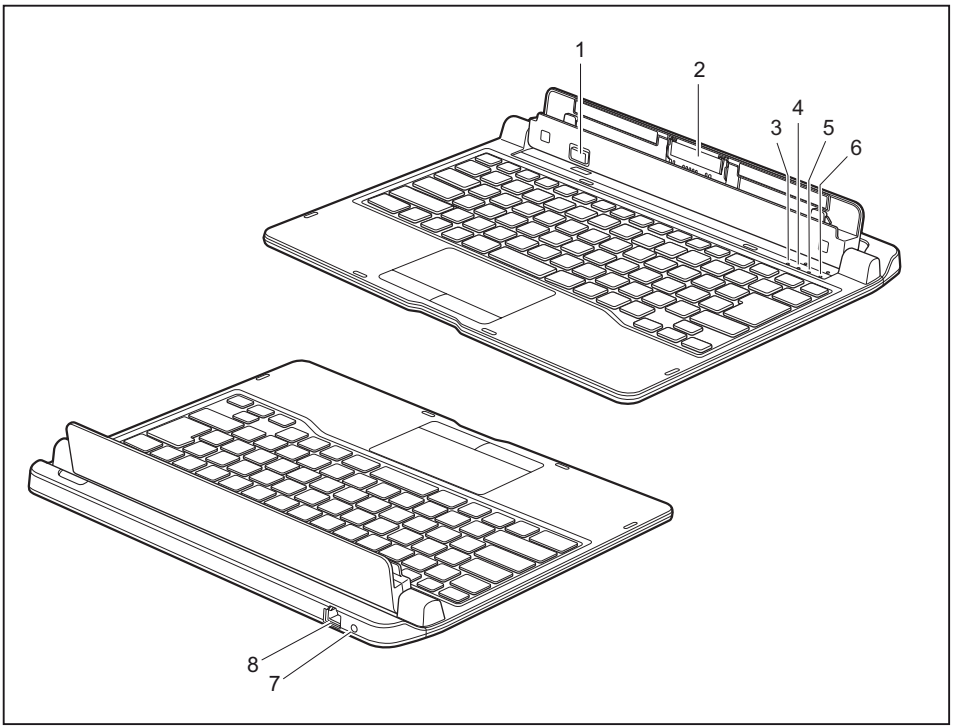


- ► Push the release button in the direction of the arrow (1) until it remains in the pressed position (red marking becomes visible).
- ► While holding the bottom part of the cradle, lift the Tablet PC away from the cradle in the direction of the arrow (2).

Keyboard dock (optional)

The keyboard dock is a device which has been optimised for convenient input of texts and allows connection to an Ethernet/LAN. You only need to dock the Tablet PC.

Components of the keyboard dock



1 = Release button
2 = Docking port for the Tablet PC
3 = F Lock display (run Fn functions by pressing the keys directly)
4 = Num Lock indicator (switch virtual keypad on and off)
5 = Caps Lock indicator (switch upper case writing function on and off)
6 = Scroll Lock display (roles, function application dependant)
7 = DC input connector (DC IN)
8 = LAN port

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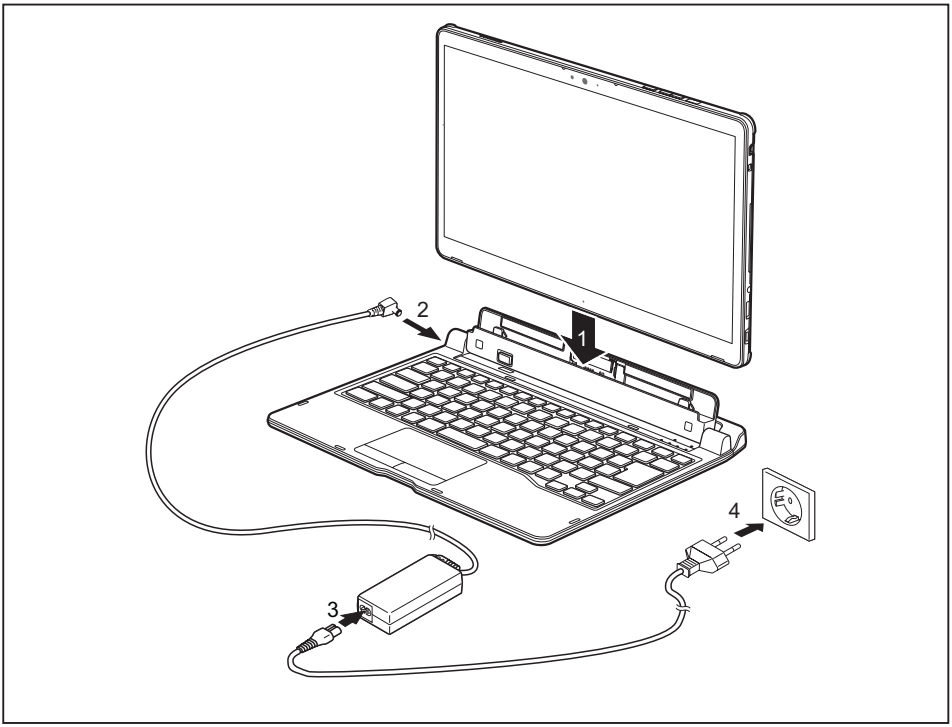
A microfibre cloth is provided with your keyboard dock. To protect your Tablet PC's touchscreen, we recommend placing the microfibre cloth between the keyboard and the touchscreen when the device is folded closed.

Connecting the Tablet PC to the keyboard dock

The recommended maximum opening angle of the Tablet PC and keyboard dock is 120 degrees. If the opening angle is greater than 120 degrees, we recommend holding the keyboard dock with your free hand while operating the Tablet PC with the pen or by touch. This will prevent the Tablet PC from accidentally tipping backwards.

► Position the keyboard dock as shown.



► Press the tablet PC onto the keyboard dock in the direction of the arrow (1), until you feel it engage on the connector.

► Connect the mains adapter cable to the DC input connector (DC IN) on the Tablet PC (2).

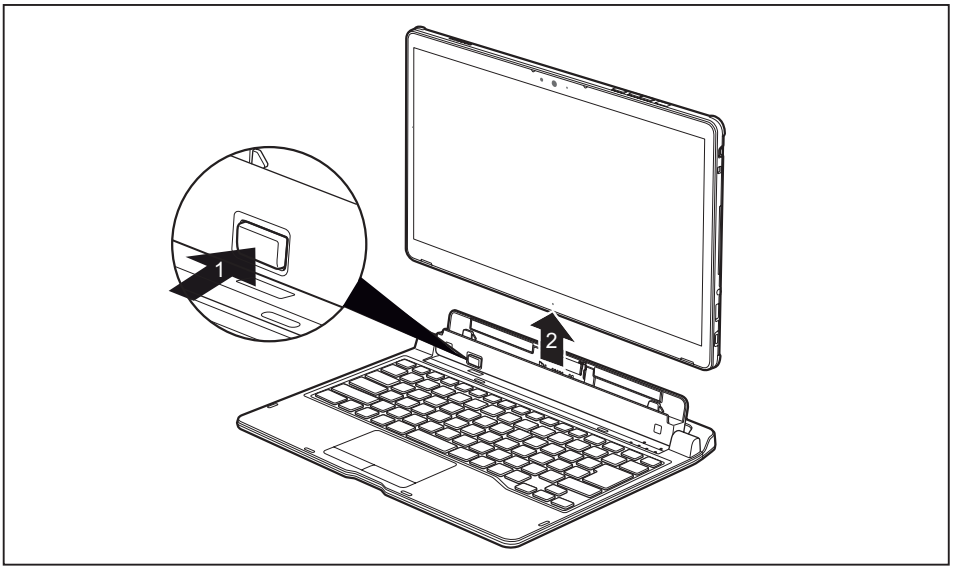
► Connect the power cable to the power adapter provided for the keyboard dock (3), see chapter "Technical data", Page 80.

► Plug the power cable into the mains socket (4).

If the Tablet PC is connected to the keyboard dock, you can also connect the mains adapter to the Tablet PC instead of to the keyboard dock.

Disconnecting the Tablet PC from the keyboard dock

It is possible to disconnect the Tablet PC from the keyboard dock during operation. To prevent problems, we recommend that you undock the Tablet PC using the appropriate function in the operating system.



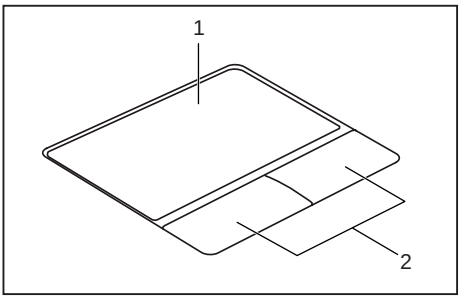
- ► Press and hold the release button (1) until it remains in the pressed position (red marking becomes visible).
- ► Lift the Tablet PC away from the keyboard dock in the direction of the arrow (2).

Touchpad and touchpad buttons

Keep the touchpad clean. Protect it from dirt, liquids and grease.

Never use the touchpad if your fingers are dirty.

Do not rest heavy objects (e.g. books) on the touchpad or the touchpad buttons.



1 = Touchpad

2 = Touchpad buttons

You can move the cursor using the touchpad.

The touchpad buttons allow you to select and execute commands. They correspond to the buttons on a conventional mouse.

You can also deactivate the touchpad via the keyboard, so that you cannot move the cursor unintentionally (see chapter "Key combinations", Page 50).

Moving the pointer

► Move your finger on the touchpad.

↳ The pointer will move.

Selecting an item

► Move the pointer to the item you wish to select.

► Tap the touchpad once or press the left button once.

↳ The item is selected.

Executing commands

► Move the pointer to the field you wish to select.

► Tap the touchpad twice or press the left button twice.

↳ The command is executed.

Dragging items

- ► Select the desired item.
- ► Press and hold the left button and, with your finger on the touchpad, drag the item to the desired position.

↳ The item will be moved.

Switching the Touchpad on and off

You can switch the touchpad on and off using the keyboard, see "Key combinations", Page 50.

Keyboard

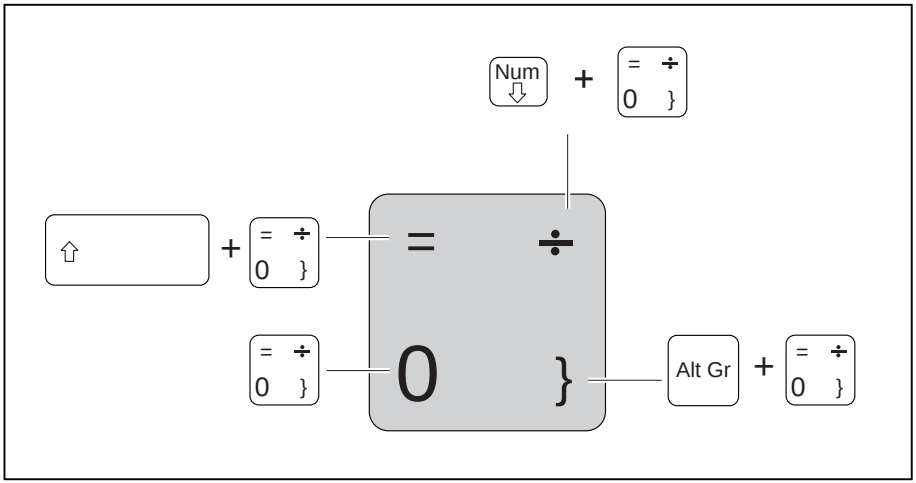
The keyboard of the keyboard dock is subject to continuous wear through normal use. The key markings are especially prone to wear. The keyboard markings can wear off in the course of using the keyboard dock.

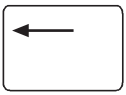
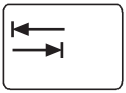
The keyboard has been designed to provide all the functions of an enhanced keyboard. Some enhanced keyboard functions are mapped with key combinations.

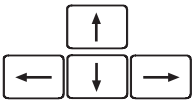
The following description of keys refers to Windows. Additional functions supported by the keys are described in the relevant manuals supplied with your application programs.

The figure below shows how to access the different characters on keys with overlaid functions. The example applies when the Caps Lock key has not been activated.

The illustrations shown below may differ from your actual device.



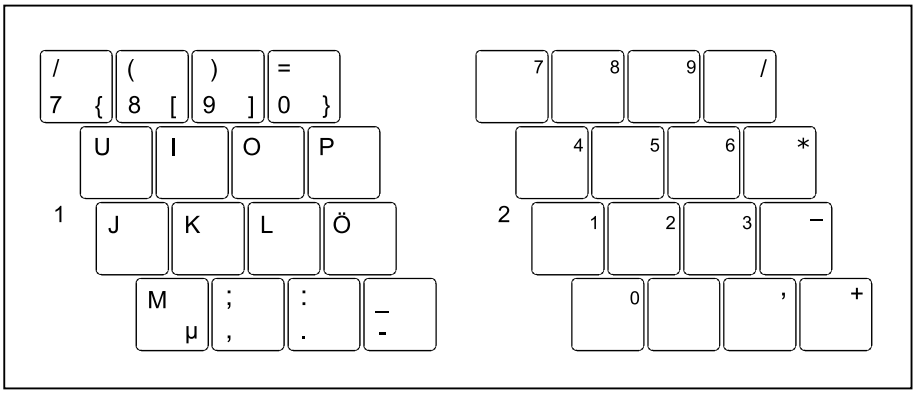
Key	Description
	**Backspace key** The Backspace key deletes the character to the left of the cursor.
	**Tab key** The Tab key moves the cursor to the next tab stop.

Key	Description
	Enter key (return) The Enter key terminates a command line. The command you have entered is executed when you press this key.
	Caps Lock key The Caps Lock key activates uppercase mode. In Caps Lock mode, all of the characters you type appear in upper case. In the case of overlay keys, the character printed on the upper left of the key will appear when that key is pressed. To cancel the Caps Lock function, simply press the Caps Lock key again.
	Shift key The Shift key causes uppercase characters to appear. In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed.
	Fn key The Fn key enables the special functions indicated on overlay keys (see "Key combinations", Page 50).
	**Cursor keys** The cursor keys move the cursor in the direction of the arrow, i.e. up, down, left, or right.
	Windows key The Windows key switches between the start screen and the last used application.
	Menu key The Menu key opens the menu for the active application.

Virtual numeric keypad

To provide the convenience of a numeric keypad, your keyboard is equipped with a virtual numeric keypad. The special keys of the virtual numeric keypad are recognisable by the numbers and symbols printed in the upper right corner of each key. If you have switched on the virtual numeric keypad, you can output the characters shown on the upper right of the keys.

The keyboard layout shown below may differ from your actual device.



1 = Valid characters when the Num key is not activated

2 = Valid characters when the Num key is activated

Further information about the status indicators can be found in chapter "Status indicators", Page 19.

Country and keyboard settings

► Change the country and keyboard settings as described in the documentation for your operating system.

Status indicators

The status indicators provide information about the status of the keyboard functions etc.

Status displays	Description
	F-Lock (function lock) indicator The indicator lights up: The key combination Fn + (Fn: function key) has been pressed. The special functions of the Fn (function) keys (see section "Key combinations", Page 50) can be executed by pressing the keys directly, without having to press the Fn key.
	Num Lock indicator Indicator is lit: The Num key has been pressed. The virtual numerical keypad is activated. You can output the characters indicated on the upper right of the keys.
	Caps Lock indicator Indicator is lit: The Caps Lock key has been pressed. All letters will be output as uppercase letters. In the case of keys labelled several times, the character printed on the upper left of the key will appear when that key is pressed.
	Scroll Lock indicator Indicator is lit: The key combination Fn + Scr has been pressed. The effect that this key has varies between applications.

Key combinations

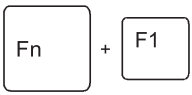
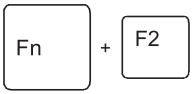
The following description of key combinations applies to Windows operating systems. Some of the following key combinations may not function in other operating systems or with certain device drivers.

Other key combinations are described in the relevant manuals supplied with your application programs.

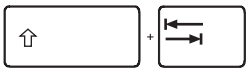
Key combinations are entered as follows:

- ► Press the first key in the combination and keep it pressed.
- ► While holding the first key down, press the other key or keys in the combination.

If the key combination Fn + is pressed: The special functions of the Fn keys can be executed by pressing the keys directly without also having to press the Fn key.

Combination	Description
	**Switching the microphone on/off** This key combination enables and disables the microphone.
	**Switching the loudspeakers on and off** This key combination switches your Tablet PC's loudspeakers off and on.

Combination	Description
Fn + F3	**Decrease volume** This key combination reduces the volume of the internal loudspeakers.
Fn + F4	**Increase volume** This key combination increases the volume of the internal loudspeakers.
Fn + F5	**Switching the wireless components on / off** This key combination switches the wireless components off or on.
Fn + F6	**Switching the touchpad and touchpad buttons on/off** This key combination switches the touchpad and the touchpad buttons on or off.
Fn + F7	**Decrease screen brightness** This key combination decreases the brightness of the screen.
Fn + F8	**Increase screen brightness** This key combination increases the brightness of the screen.
Fn + F9	**Energy saving functions** Use this key combination to activate the power management functions (see chapter "Using the power-management features", Page 32).
Fn + F10	**Toggle output screen** Use this key combination to select which screen(s) is/are used for display if an external monitor is connected. Screen output is possible: • just the Tablet PC's LCD screen • both the Tablet PC's LCD screen and the external monitor • only on the external monitor This setting is useful if you would like a high resolution and a high refresh rate on an external monitor.
Fn +	**Activate/deactivate keyboard backlight** On backlit keyboards, this key combination activates or deactivates the backlight.
Alt +	**Switch between open applications** Use this key combination to switch between several open applications.

Combination	Description
	Windows security/Task-Manager This key combination opens the Windows security/Task-Manager window.
	**Back tab** This key combination moves the cursor back to the previous tab stop.

Key combinations using the Windows keys are detailed in the manual for your operating system.

In addition, the following non-labelled key combinations are supported:

- Fn + S = Pause
- Fn + B = Break
- Fn + R = SysRq

Keyboard with backlight

On this version of the keyboard, repeated pressing of the key combination Fn + space bar allows the background lighting to be switched on and off and also a choice to be made between two levels of brightness.

In battery mode, it is recommended to turn on the backlight only when needed and to use the lower brightness level to maximize battery life.

Security functions

Your Tablet PC has several security features that you can use to secure your system from unauthorised access.

This chapter explains how to use each function, and what the benefits are.

Please remember that in some cases, for example, forgetting your password, you may be locked out and unable to access your data. Therefore, please note the following information:

- Back up your data on external data carriers at regular intervals.
- Some security functions need you to choose passwords. Make a note of the passwords and keep them in a safe place.

If you forget your passwords you will need to contact the our Service Desk. Deletion or resetting of passwords is not covered by your warranty and a charge will be made for assistance.

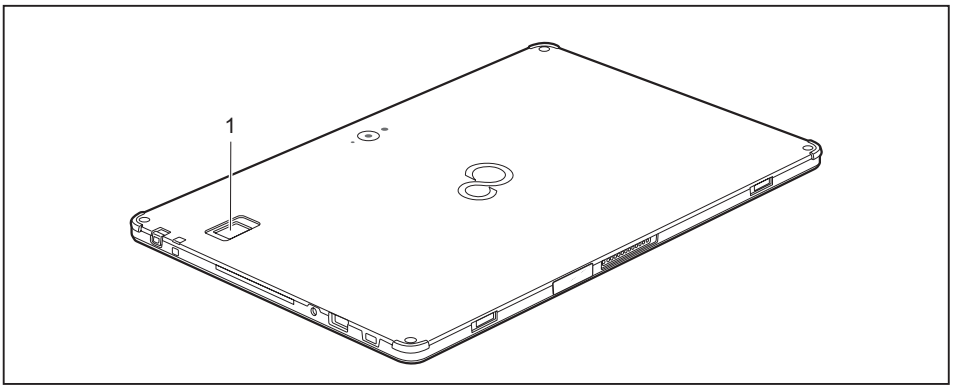
If you change the *Password Severity* setting from *Strong* to *Stringent* in the *Security* BIOS Setup Utility menu, the Fujitsu Service Desk can no longer reset the password. In this case, the system can remain permanently unusable.

Therefore, Fujitsu recommends to generally set up a supervisor password with the setting *Password Severity* = *Strong*.

Setting up the fingerprint sensor (configuration dependent)

Whether your device has a fingerprint sensor or not depends on the device configuration that you ordered.

The fingerprint sensor can record an image of a fingerprint. With additional fingerprint software, this image can be processed and used instead of a password.

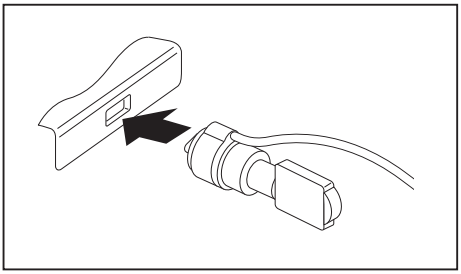


► You must install the fingerprint software in order to be able to use the fingerprint sensor (1).

The current *Workplace Protect* software for the fingerprint sensor can be found on the Internet at "http://www.fujitsu.com/fts/solutions/business-technology/security/secure/index.html."

Using the Security Lock

Your device comes with a Security Lock mechanism for the Kensington Lock Cable. With the Kensington Lock Cable, a sturdy steel cable, you can protect your device and your Port Replicator from theft. The Kensington Lock Cable is available as an accessory.



► Fit the Kensington Lock Cable to the corresponding device on your equipment.

Attach another Kensington Lock Cable to your cradle to protect this from theft as well.

Configuring password protection in BIOS Setup Utility

Before using the various options for password protection in the *BIOS Setup utility* to increase data security, please observe the following:

Make a note of the passwords and keep them in a safe place. If you forget your supervisor password you will not be able to access your Tablet PC. Deletion of the password is not covered by your warranty and a charge will be made for assistance.

Your password can be up to 32 characters long and can contain letters, numbers and special characters.

When using special characters, please remember that they depend on the country version of the keyboard being used.

If you change the *Password Severity* setting from *Strong* to *Stringent* in the *Security* BIOS Setup Utility menu, the Fujitsu Service Desk can no longer reset the password. In this case, the system can remain permanently unusable.

Therefore, Fujitsu recommends to generally set up a supervisor password with the setting *Password Severity* = *Strong*.

Protecting BIOS Setup Utility (supervisor and user password)

If you have opened these operating instructions on the screen, we recommend that you print them out. You cannot call the instructions onto the screen while you are setting up the password.

The supervisor password and the user password both prevent unauthorised use of the *BIOS Setup Utility*. With the aid of the supervisor password you can access all of the functions of the *BIOS Setup Utility*, while the user password will only give you access to some of the functions. You can only set up a user password if a supervisor password has already been assigned.

Please refer to section "Settings in BIOS Setup Utility", Page 69 for a description of how to call up and operate the *BIOS-Setup-Utility*.

Setting supervisor and user password

► Start the *BIOS Setup Utility* and go to the *Security* menu.
► Select the *Set Supervisor Password* field and press the Enter key.
↳ With *Enter new Password*: you are asked to enter a password.
► Enter the password and press the Enter key.
↳ *Confirm new Password* requires you to confirm the password.
► Enter the password again and press the Enter key.
↳ *Changes have been saved* is a confirmation that the new password has been saved.
► To set the user password, select *Set User Password* and proceed exactly as when configuring the supervisor password.
↳ If you do not want to change any other settings, you can exit *BIOS Setup Utility*.
► In the *Exit* menu, select the option *Save Changes & Exit*.
► Select *Yes* and press the Enter key.
↳ The Tablet PC is rebooted and the new password is effective. It will now be necessary to first enter your supervisor or user password in order to open the *BIOS Setup Utility*. Please note that the user password only provides access to a few of the BIOS settings.

Changing the supervisor or user password

You can only change the supervisor password when you have logged into the *BIOS Setup Utility* with the supervisor password.

► Call the *BIOS Setup Utility* and go to the *Security* menu.
► When changing the password, proceed exactly as for password assignment.

Removing passwords

To remove a password (without setting a new password) perform the following steps:

► Start the *BIOS Setup Utility* and go to the *Security* menu.
► Highlight the *Set Supervisor Password* or *Set User Password* field and press the Enter key.
↳ You will be requested to enter the current password by the *Enter Current Password* prompt.
You will be requested to enter a new password by the *Enter New Password* prompt.
► Press the Enter key twice.
► In the *Exit* menu, select the option *Save Changes & Exit*.
► Select *Yes* and press the Enter key.
↳ The Tablet PC is rebooted and the password is cancelled.
Removing the supervisor password simultaneously deactivates the user password.

Password protection for booting of the operating system

With the supervisor password you have set in the *BIOS Setup Utility* (see section "Setting supervisor and user password", Page 56), you can also prevent starting of the operating system.

Activating system protection

► Start the *BIOS Setup Utility* and go to the *Security* menu.
► Select the *Password on Boot* option and press the Enter key.
► Select the desired option (*First Boot* or *Every Boot*) and press Enter
► Select the *Save Changes & Exit* option under *Exit*.
↳ The Tablet PC reboots. You will be prompted to enter your password (the supervisor password).

Deactivating system protection

► Start the *BIOS Setup Utility* and go to the *Security* menu.
► Select the *Password on Boot* option and press the Enter key.
► Select the *Disabled* option and press the Enter key.
↳ If you do not want to change any other settings, you can exit *BIOS Setup Utility*.
► Select the *Save Changes & Exit* option under *Exit*.
↳ The Tablet PC reboots. The system is no longer password-protected.

Password protection for the hard disk

The hard disk password prevents unauthorised access to the hard disk drives and is checked internally each time the system is booted. The prerequisite for this is that you have assigned at least the supervisor password.

Activating hard disk protection

► Call up the *BIOS Setup* and select the *Security* menu.

↳ If you have not assigned BIOS passwords yet, define the supervisor and the user password now, if desired (see "Security functions", Page 53).

► Mark the *Hard Disk Security* field and press the Enter key.

► In the *Drive0* area mark the *Set Master Password* field and press the Enter key.

↳ *Enter new Password* then appears and you are asked to enter a password.

► Enter the password and press the Enter key.

↳ *Confirm new Password* requires you to confirm the password.

► Enter the password again and press the Enter key.

↳ *Setup Notice: Changes have been saved* is displayed to confirm that the new password has been saved.

The field *Password Entry on Boot* is set to *Enabled* by default. You can exit the *BIOS Setup* once you have finished changing the settings.

► From the *Exit* menu, choose the option *Exit Saving Changes*.

► Press the Enter key and select *Yes*.

↳ The Table PC reboots and your hard disk is now protected with a password. The password prompt is enabled as soon as the Tablet PC has rebooted.

Deactivating hard disk protection

To cancel a password without setting a new one, proceed as follows:

► Call up the *BIOS Setup* and select the *Security* menu.

► Mark the *Hard Disk Security* field and press the Enter key.

► In the *Drive0* area mark the *Set Master Password* field and press the Enter key.

↳ You will be initially requested to enter the old password by the *Enter current Password* prompt.

You will then be requested to enter a new password by the *Enter new Password* prompt.

► After providing the input, press the Enter key three times.

► From the *Exit* menu, choose the option *Exit Saving Changes*.

► Press the Enter key and select *Yes*.

↳ The Tablet PC reboots and there is no longer any password protection for this hard disk.

SmartCard reader (depending on configuration)

Depending on the selected model, your device may be equipped with a SmartCard reader.

SmartCards are not supplied as standard equipment. You can use all SmartCards that comply with the ISO standard 7816-1, -2 or -3. These SmartCards are available from various manufacturers.

With the appropriate software you can use your SmartCard as an alternative to password protection, but also as a digital signature, for encrypting your e-mails or for home banking.

We recommend that you always use two SmartCards. Always keep one of the SmartCards in a safe place if you are carrying the other SmartCard with you.

In order to be able to take advantage of all the security features of your Tablet PC, you will need a CardOS SmartCard from Fujitsu.

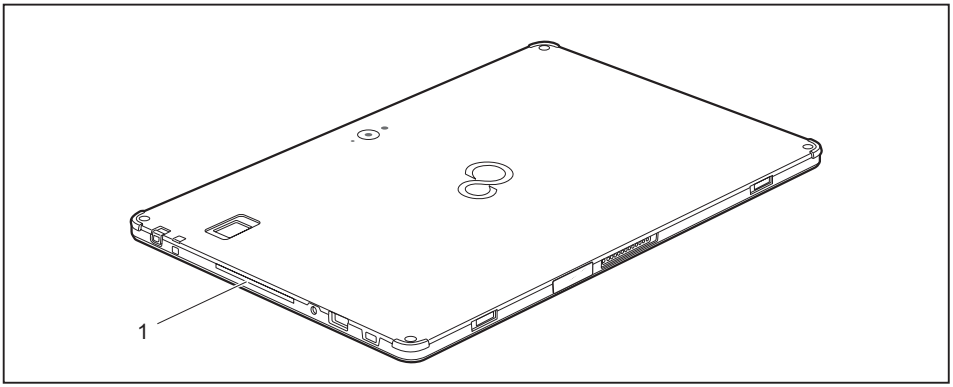
The SmartCard can only be used with a PIN, offering maximum protection even if you lose the SmartCard. In order to maximise your security, the CardOS SmartCard is disabled if three incorrect attempts are made to enter the PIN.

When you use the CardOS SmartCard for the first time, you will either need to enter the preset PIN "12345678" or the PIN given to you by your systems administrator.

Inserting the SmartCard

Depending on the selected model, your device may be equipped with a SmartCard reader.

Do not use force when inserting and removing the SmartCard.
Make sure that foreign objects do not fall into the SmartCard reader.



► Push the SmartCard into the SmartCard reader (1) with the chip towards the front of the Tablet PC.

Trusted Platform Module - TPM (depending on configuration)

To use the TPM, you **must** activate the TPM in the *BIOS Setup* before the software is installed. The condition for this is that you have assigned at least the supervisor password (see "Security functions", Page 53).

Enabling TPM

- Requirement: You have set a supervisor password, see "Security functions", Page 53.

► Call up the BIOS Setup and select the *Security* menu.

► Mark the *TPM Security Chip Setting* field and press the Enter key.

► Select *Enabled* to activate the TPM.

↳ Once you have activated the TPM the *Clear Security Chip* option appears.

Select *Clear Security Chip* to delete the holder in the TPM. By clicking on *Enabled*, all secret keys (e.g. SRK - Storage Root Keys, AIK - Attestation Identity Keys etc.) generated by applications are deleted.

Please note that you will then no longer be able to access the data you have encrypted with the keys based on that holder.

► In the *Exit* menu, choose the option *Exit Saving Changes*.

► Press the enter key and select *Yes*.

↳ The tablet PC restarts and the TPM is switched on after the reboot.

Disabling TPM

- Requirement: You have set a supervisor password, see "Security functions", Page 53.

► Call up the BIOS Setup and select the *Security* menu.

► Mark the *TPM Security Chip Setting* field and press the Enter key.

► Select *Disabled* to deactivate the TPM.

► From the *Exit* menu, choose the option *Exit Saving Changes*.

► Press the Enter key and select *Yes*.

↳ The tablet PC is rebooted and the TPM is disabled.

Enable password entry using the on-screen keyboard (on-screen keyboard for BitLocker password)

If TPM is enabled, you can enable an OnScreen keyboard for the internal touchscreen in the BIOS Setup.

► Call BIOS Setup and select the *Advanced* menu.
► Mark *Boot Configurations* and press the enter key.
► From the *UEFI Boot On-Screen Keyboard* selection, choose the option *Enabled*.
► In the *Exit* menu, choose the option *Exit Saving Changes*.
► Press the enter key and select *Yes*.
↳ The tablet PC is rebooted and the password dialogue is displayed.
Tap on the password field to enable the on-screen keyboard.

Connecting external devices

Under all circumstances, please observe the safety notes provided in the "Important notes", Page 12 chapter before connecting or disconnecting any devices to or from your Tablet PC.

Always read the documentation supplied with the device you wish to connect.

Never connect or disconnect cables during a thunderstorm.

Never pull at a cable when disconnecting it. Always grasp the plug.

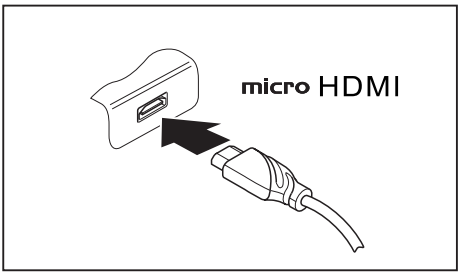
With some devices, such as USB devices, it is not necessary to switch off the Tablet PC and the device before connecting/disconnecting. For more information about whether or not devices need to be switched off, please refer to the documentation supplied with the external device.

Some of the external devices require special drivers (see the operating system and external device documentation).

Connecting an external monitor

Micro HDMI port

The micro HDMI port of your device can be used to connect an external amplifier, LCD TV or a plasma TV with an HDMI connection.



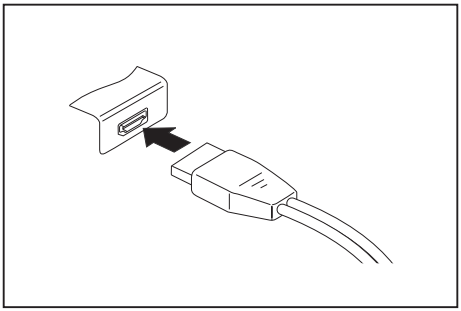
- ► Connect the data cable to the external device.
- ► Connect the data cable to the micro HDMI port.

Some LCD televisions have only two loudspeaker ports and therefore cannot reproduce Dolby Digital or DTS. To play back HDMI sound, you must change the HDMI sound settings accordingly.

You can find the settings under *Control Panel - Hardware and Sound*. Deactivate the settings for DTS Audio and Dolby Digital to enable playback of HDMI sound.

Display port (cradle only)

The display port of the cradle can be used to connect a display, LCD TV or a plasma TV with an appropriate port. The screen output is limited to a maximum of two external screens at the same time.



- ► Connect the data cable to the external device.
- ► Connect the data cable to the display port of the cradle.

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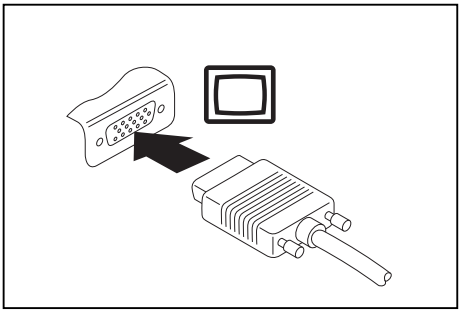
Some LCD televisions have only two loudspeaker connections and therefore cannot reproduce Dolby Digital or DTS. In order to reproduce the sound, you must go into *Windows* and adjust the sound settings.

► To do this, deactivate the *DTS Audio* and *Dolby Digital* settings in the control panel for the *Realtek HDMI Output*.

VGA monitor port (cradle only)

An analogue monitor is connected to the analogue VGA monitor port. The screen output is limited to a maximum of two external screens at the same time.



- ► Switch off the Tablet PC and the external monitor.
- ► Plug the data cable of the external monitor into the monitor port.
- ► First switch on external monitor and then the Tablet PC.

You can also switch back and forth between the external monitor and the LCD screen of the Tablet PC, see "Touch screen", Page 22.

You can display the same picture on the external monitor and the LCD screen of the Tablet PC simultaneously.

Connecting USB devices

On the USB ports, you can connect external devices that also have a USB port (e.g. a DVD drive, a printer, a scanner or a modem).

USB devices are hot-pluggable. This means you can connect and disconnect devices while your operating system is running.

USB 1.x has a maximum data transfer rate of 12 Mbit/s.

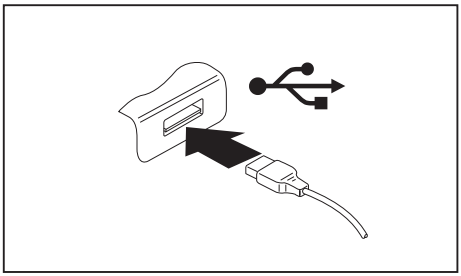
USB 2.0 has a data transfer rate of up to 480 Mbit/s.

USB 3.0 has a data transfer rate of up to 5 Gbit/s.

USB 3.1 (Gen1) has a data transfer rate of up to 5 Gbit/s.

USB 3.1 (Gen2) has a data transfer rate of up to 10 Gbit/s.

Additional information can be found in the documentation for the USB devices.



- ► Connect the data cable to the external device.
- ► Connect the data cable to the USB port on the Tablet PC.

or

- ► Connect the data cable to a USB port of the cradle.

Device drivers

USB devices will be automatically recognised and installed by your operating system.

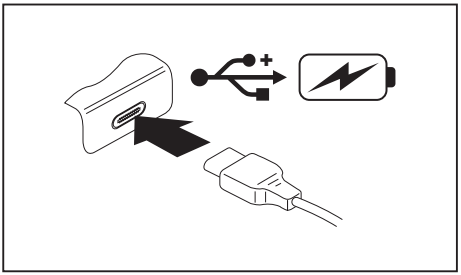
USB port with charging function (USB Type-C)

At this USB port, you can charge a connected USB device or operate devices without additional power supply.

This is also possible with the Tablet PC switched off, by activating the *USB Type-C Power Delivery on System Off* function in the *Advanced - Miscellaneous Configurations* menu of the *BIOS Setup Utility*. Instructions on how to call up and use the *BIOS Setup Utility* can be found in the "Settings in BIOS Setup Utility", Page 69 section.

USB devices are hot-pluggable. This means you can connect and disconnect the cables of USB devices while the system is running.

Additional information can be found in the documentation for the USB devices.



- ► Connect the data cable to the external device.
- ► Connect the data cable to a USB port (USB Type-C) of the Tablet PC.

How to remove USB devices correctly

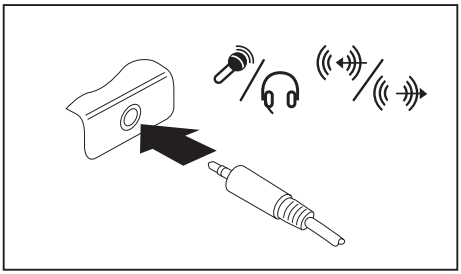
Always correctly remove the device according to the rules described below, to ensure that none of your data is lost.

- ► Tap the symbol for safe removal of the hardware.
- ► Select the device which you want to shut down and remove.
- ► Tap *OK*.

↳ Wait for the dialogue box which tells you that it is now safe to remove the device.

Headphones/microphone/Line-In/Line-Out/headset combination port

Using the headphones/microphone/Line-In/Line-Out/headset-combi port, you can connect a headset, headphones, a microphone or external loudspeakers to your Tablet PC.



- ► Connect the audio cable to the external device.
- ► Connect the audio cable to the headphone port of the Tablet PC.
- ↳ The internal loudspeakers are disabled.

If you purchase a cable from a retailer, please note the following information:

The headphones/microphone/Line-In/Line-Out/headset-combi port on your Tablet PC is a "3.5 mm jack socket".

If you want to connect headphones or a speaker you will need a "3.5 mm jack plug".

Settings in BIOS Setup Utility

The *BIOS Setup Utility* allows you to set the system functions and the hardware configuration for the Tablet PC.

When it is delivered, the Tablet PC is set to factory default settings. You can change these settings in *BIOS Setup Utility*. Any changes you make take effect as soon as you save and exit the *BIOS Setup Utility*.

The *BIOS Setup Utility* program contains the following menus:

About	Displays information relating to the BIOS, processor and Tablet PC
System	Advanced system settings
Advanced	Configuration of various hardware components, such as mouse, keyboard, processor
Security	Password settings and security functions
Boot	Configuration of the start-up sequence
Exit	Exits the *BIOS Setup Utility*

Starting the BIOS Setup Utility

- ► Press and hold the volume down button and switch the tablet PC on.
- ► If a password has been assigned, enter the password and press the Enter key.

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If you have forgotten the password, contact your system administrator or contact our customer service centre.

The *BIOS Setup Utility* starts.

Operating the BIOS Setup Utility

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Press the F1 key to display help on the operation of the *BIOS Setup Utility*. The description of the individual settings is shown in the right-hand window of the *BIOS Setup Utility*.

With the F9 key you can load the default settings of the *BIOS Setup Utility*.

- ► Use the cursor keys ← or → to select the menu in which you would like to configure settings.
- ↳ The menu is displayed on the screen.
- ► Select the option that you want to change with the cursor keys ↑ or ↓.
- ► Press the Enter key.
- ► Press the ESC key to exit the selected menu.
- ► For future reference, make a note of the changes you have made (e.g. in this manual).

Exiting BIOS Setup Utility

You need to select the desired option in the *Exit* menu and activate it by pressing the Enter key:

Exit Saving Changes - save changes and exit BIOS Setup Utility

► To save the current menu settings and exit the *BIOS Setup Utility*, select *Exit Saving Changes* and *Yes*.

↳ The Tablet PC is rebooted and the new settings come into effect.

Exit Discarding Changes – Discard changes and exit BIOS Setup Utility

► To discard the changes, select *Exit Discarding Changes* and *Yes*.

↳ The settings in place when *BIOS Setup Utility* was called remain effective. The *BIOS Setup Utility* is terminated and the Tablet PC is rebooted.

Load Setup Defaults – Copy Standard Entries

► To copy the standard entries for all menus of the *BIOS Setup Utility*, choose *Load Setup Defaults* and *Yes*.

Discard Changes – Discard changes without exiting the BIOS Setup Utility

► To discard the changes you have made, select *Discard Changes* and *Yes*.

↳ The settings in place when *BIOS Setup Utility* was called remain effective. You can now make additional settings in the *BIOS Setup Utility*.

► If you want to exit*BIOS Setup Utility*with these settings, select *Exit Saving Changes* and *Yes*.

Save Changes - save changes without exiting the BIOS Setup Utility

► To save the changes, select *Save Changes* and *Yes*.

↳ The changes are saved. You can now make additional settings in the BIOS Setup Utility.

► If you want to exit BIOS Setup Utility with these settings, choose *Exit Saving Changes* and *Yes*.

Save Changes and Power Off

► To save the changes and switch off your device, select *Save Changes and Power Off* and *Yes*.

↳ The changes are saved. Your device is shut down.

Troubleshooting and tips

Follow the safety notes in the "Safety/Regulations" manual when connecting or disconnecting cables.

If a fault occurs, try to correct it as described. If you fail to correct the problem, proceed as follows:

- ► Make a note of the steps and the circumstances that led to the fault. Also make a note of any error messages displayed.
- ► Switch the Tablet PC off.
- ► Please contact the Hotline/Service Desk.

You will find the telephone numbers at "http://support.ts.fujitsu.com/contact/servicedesk" Have the following information ready when you call:

- The model name and serial number of the Tablet PC. The serial number is located on a sticker on the underside of the Tablet PC.
- Notes of any messages that appear on the screen and information on acoustic signals.
- Any changes you have made to the hardware or software after receiving the Tablet PC.
- Any changes you have made to the *BIOS Setup* settings after receiving the Tablet PC.
- Your system configuration and all peripheral devices connected to your system.
- Your sales contract.

Our Tablet PCs have been designed primarily with mobile applications in mind. This means that considerable effort has been made to optimise components and equipment in terms of weight, space and energy requirements. Depending on the particular configuration you have purchased, it is possible that functionality may be slightly reduced compared to a desktop PC if you are running processor-intensive gaming software, e.g. games with intensive 3D graphics. Updating your hardware with drivers which have not been approved by Fujitsu Technology Solutions may result in performance losses, data losses or malfunction of the equipment. A list of approved drivers and current BIOS versions can be downloaded from: "http://support.ts.fujitsu.com/Download/Index.asp"

Executing a reset

If the device no longer responds to your inputs, select one of the following options:

Forced shut down

► Keep the ON/OFF button pressed for at least 4 seconds.
↳ The device will shut down. You can then restart it.

Carry out a battery reset

► Shut down the device.

If the device does not respond, you may have to force the shutdown, as described in the previous section.

► Disconnect the mains adapter from the device.
► Press the volume up button and the shortcut button at the same time.
↳ The device performs a reset, comparable to removing the battery. You can then restart it.

Help if problems occur

Should you encounter a problem with your computer that you cannot resolve yourself:

► Note the ID number of your device. The ID number is found on the type rating plate on the back or underside of the casing.
► Contact the Service Desk responsible for your country for clarification of the problem: "http://support.ts.fujitsu.com/contact/servicedesk". When you do this, please have ready the ID number and serial number of your system.

The Tablet PC's date or time is incorrect

Cause	Troubleshooting
Time and date are incorrect.	► With the *BIOS-Setup-Utility*, you can set the date and time in the *main* menu.
Date and time are still set incorrectly after switching on the Tablet PC.	► Please contact your sales outlet or our Hotline/Service Desk.

Battery charging indicator not lit

Cause	Fault elimination
The battery is not being charged.	► Connect the Tablet PC to a mains outlet using the mains adapter. **Note:** The battery will only be charged again when the battery capacity is less than 90%.

The Tablet PC's touchscreen remains dark

Cause	Troubleshooting
Touchscreen is switched off.	► Press a key (external keyboard) or tap on the touchscreen.
External monitor or television set connected.	► Check whether the graphics driver settings are correct or whether an external monitor has been detected in "Intel Graphics Media Accelerator Driver for mobile".

The display on the Tablet PC's touchscreen is difficult to read.

Cause	Troubleshooting
Reflected glare	► Move the Tablet PC into a different position. ► Increase the brightness of the screen.

The external monitor remains blank

Cause	Troubleshooting
Monitor is switched off.	► Switch the external monitor on.
Power saving has been activated (monitor is blank).	► Press a key (external keyboard) or tap on the touchscreen.
Brightness is set to dark.	► Adjust the brightness of the monitor.
Screen output is set on the Tablet PC's touchscreen.	► Check whether the graphics driver settings are correct or whether an external monitor has been detected in "Intel Graphics Media Accelerator Driver for mobile".
The external monitor's power cable or data cable is not connected properly.	► Switch off the Tablet PC and the external monitor. ► Check whether the power cable is plugged properly into the external monitor and into the power socket. ► Check whether the data cable is properly connected to the Tablet PC and the external monitor (if it is plugged in with a connector). ► Switch on the Tablet PC and the external monitor.

The external monitor is blank or the image is unstable

Cause	Troubleshooting
The wrong external monitor has been selected or the wrong screen resolution has been set for the application program.	► Terminate the application program in Windows. If the error persists after terminating the program, use the key combination for switching the screen output in order to switch to the touchscreen of the tablet PC. Change the following setting: ► Set the screen resolution: Set the screen resolution as described in the documentation for your operating system. ► Select monitor: Select monitor 1 or 2 as described in the documentation for your operating system.

The cursor does not correctly follow the pen movements

Cause	Fault elimination
Pen incorrectly calibrated	► Calibrate the pen as described in chapters "Setting the pen", Page 28 and "Calibrating the pen", Page 28.

Pen input not working

Cause	Troubleshooting
The pen is in power-saving mode.	► Press the pen button gently to wake the pen from sleep mode.
The pen battery is completely discharged.	► Insert the pen fully into its slot on the Tablet PC to charge the pen battery.

The Tablet PC does not start after switch on

Cause	Troubleshooting
The battery is dead.	► Charge the battery. **or** ► Connect the mains adapter to the Tablet PC.
The power adapter is not connected correctly.	► Check whether the mains adapter is connected correctly to the Tablet PC. ► Switch on the Tablet PC.

The Tablet PC stops working

Cause	Troubleshooting
The Tablet PC is in energy saving mode.	► Leave energy saving mode.
An application programme has caused the malfunction.	► Close the application program or restart the Tablet PC (by restarting the operating system or switching the device off and back on again).
The battery is dead.	► Charge the battery. **or** ► Connect the mains adapter to the Tablet PC.

The printer does not print

Cause	Troubleshooting
The printer is not switched on.	► Make sure that the printer is switched on and ready for operation (refer to the documentation supplied with the printer).
The printer is not connected correctly.	► Check that the data cable connecting the Table PC to the printer is properly connected.
The printer driver is faulty or not correctly installed, or it is the wrong printer driver.	► Check that the data cable connecting the Tablet PC to the printer is properly connected. ► Check whether the correct printer driver is loaded (refer to the printer documentation).

The wireless connection to a network does not work

Cause	Troubleshooting
The wireless component is disabled.	► Switch the wireless component on (see "Switching the wireless components on and off", Page 35).
The wireless component is enabled. Despite this, the wireless connection to a network does not work.	► Check whether the wireless connection is switched on via the software. ► Further information on using the wireless component can be found in the help files.

The battery discharges too quickly

Cause	Troubleshooting
The battery is either too hot or too cold. In this case the battery indicator flashes.	► Bring the Tablet PC up/down to a normal temperature again. ► If the operating time of the battery life is extremely short, the battery is probably too old. Replace battery if necessary.
You may have an application running that consumes a great deal of power due to frequent accessing of the hard disk or optical drive.	► Use the mains adapter as frequently as possible.
The maximum brightness may have been set for the screen.	► Reduce the brightness of the screen to lower energy consumption: You will find the setting under *Control Panel – Hardware and Sounds – Windows Mobility Center*.

SmartCard reader is not recognised.

Cause	Troubleshooting
Chip card inserted incorrectly.	► Check if you inserted your SmartCard into the SmartCard reader correctly. ► Check whether the SmartCard you are using is supported. Your SmartCard must comply with the ISO standard 7816-1, -2, -3 and -4.

SmartCard PIN forgotten

Cause	Troubleshooting
PIN forgotten	► If you work in a network, contact your system administrator, who can unlock your Tablet PC with a supervisor PIN.

SmartCard lost

Cause	Troubleshooting
SmartCard lost	► If you work in a network, contact your system administrator, who can boot your Tablet PC with a Supervisor SmartCard.

Acoustic warnings

Cause	Troubleshooting
A beep sounds every few seconds. The battery is almost flat.	► Charge the battery.

Error messages on the screen

This section describes the error messages generated by the BIOS Setup. Error messages displayed by the operating system or programmes are described in the relevant documentation.

If the error message appears repeatedly, despite troubleshooting measures, please contact the place of purchase or our customer service centre.

Error message/cause	Resolution
CMOS battery bad If the error message occurs repeatedly, the buffer battery in the Tablet PC is flat.	► Contact your sales outlet or our customer service centre.
System CMOS checksum bad - default configuration used The system configuration information is incorrect.	► Switch off the Tablet PC. ► Switch on the Tablet PC. ► In the *BIOS Setup*, select the *Exit* menu. ► Select the entry *Load Setup Defaults*. ► Select *OK* and press the Enter key.
Extended memory failed at offset: xxxx Failing Bits: zzzz zzzz When testing the extended memory an error has resulted at the address xxxx.	► Contact your sales outlet or our customer service centre.
Failure Fixed Disk n The settings of the hard disk drive are incorrect.	► Start the *BIOS Setup* (*Primary Master* submenu) and select the correct settings.
Keyboard controller error	► Switch off your Tablet PC using the ON/OFF button. ► Wait 3 - 5 seconds and switch on the Tablet PC again.
Keyboard error	If you are using an external keyboard: ► Check the connection and reboot the Tablet PC.
nn Stuck key	► Make sure that no key is pressed.
Operating system not found	► Check in the *BIOS Setup* whether your hard disk has been set correctly. ► Make sure that the operating system is installed on the corresponding drive.
Press <F1> to resume, <F2> to SETUP This error message appears if an error occurs during the self-test before starting the operating system.	► Press the volume up button to start BIOS Setup. **or** ► If you are working with an external keyboard, press the F1 or F2 key on the keyboard.
Real time clock error	► Contact your sales outlet or our customer service centre.
nnnnK Shadow RAM failed at offset: xxxx Failing Bits: zzzz	► Contact your sales outlet or our customer service centre.
System battery is dead - Replace and run SETUP	► Contact your sales outlet or our customer service centre.
System cache error - Cache disabled	► Contact your sales outlet or our customer service centre.
System timer error	► Contact your sales outlet or our customer service centre.

Restoring the system under Windows 10

If necessary, you can reset your system to the original state of the hard disk.

- ► Select *Settings* from the Start menu.
- ► Select *Update & security*.
- ► Select *Recovery*.
- ► Select according to your requirements from the options given.

Technical data

Tablet PC

General	
Processor	8. Gen Intel® Core™ Processor
Main memory	8 GB / 16 GB onboard
Electrical data	
Protection class	II
Maximum power consumption (when the Tablet PC is switched on and the battery is being charged):	with keyboard dock: 65 W with cradle: 90 W
Touchscreen	
Size	13.3" Full HD Antiglare
Resolution	1920 x 1080 / 16 million colours
Pixel class	II
Brightness control	12 levels
Cameras	• Front: 2 Megapixel • Rear: 5 megapixels, autofocus, mobile light
Graphics card	
Chip	Intel® UHD Graphics 620
Maximum resolution on external display:	HDMI: 4096 x 2160
Dimensions	
Width x depth x height	316.3 x 202.2 x 10.2 mm 12.45 x 7.96 x 0.40 inches
Weight depending on configuration	from 799 g / 1.76 lbs
Input devices	
Tablet buttons	4 keys
Pen	Pen with 2 pen buttons
Slots	
Memory card slot	1 x microSD
SIM card slot (configuration-dependent)	1 x MicroSIM
SmartCard reader (configuration dependent)	1 x
Ports	
Combined headphone and microphone port	3.5 mm stereo mini jack
Docking port	1 x
Micro HDMI port	1 x
USB (Universal Serial Bus)	1 x USB 2.0, 1 x USB 3.0, 1 x USB port 3.1 with charging function (USB Type C)
Security Lock device	1 x

Ambient conditions	
Environment class DIN IEC 721	7K1
Mechanism class DIN IEC 721	7M2
Operating temperature	5 °C .... 35 °C / 41 °F .... 95 °F
Transport temperature (2K2)	–15 °C .... 60 °C / 5 °F .... 140 °F
Relative humidity	20 % ... 80 % (no condensation)
Operating height	up to 2000 m

Screen resolutions for integrated screen and external screens

	Max. number of screens	Number of external screens	Inte-grated screen	System interface		Ports on the cradle	
				micro HDMI port	Display-prt / USB Type C	VGA	Display Port
Only Tablet PC	2	1	1920x1080 @60Hz	4096x2160 @24Hz 3840x2160 @30Hz	-	-	-
			1920x1080 @60Hz	-	3840x2160 @60Hz	-	-
	3	2	1920x1080 @60Hz	4096x2160 @24Hz 3840x2160 @30Hz	3840x2160 @60Hz	-	-
with cradle	2	1	1920x1080 @60Hz	-	-	1920x1200 @60Hz*	-
			1920x1080 @60Hz	-	-	-	1920x1200 @60Hz*
	3	2	1920x1080 @60Hz	4096x2160 @24Hz 3840x2160 @30Hz	-	1920x1200 @60Hz*	-
			1920x1080 @60Hz	4096x2160 @24Hz 3840x2160 @30Hz	-	-	1920x1200 @60Hz*
			1920x1080 @60Hz	-	-	1024x768 @60Hz	1024x768 @60Hz
	3	3	-	4096x2160 @24Hz 3840x2160 @30Hz	-	1024x768 @60Hz	1024x768 @60Hz

* with Reduced Blanking

Rechargeable battery

You can find information on the batteries used in your device on the Internet at "http://www.fujitsu.com/fts/support/".

	3-cell lithium-ion rechargeable battery 3450 mAh
Rated voltage	11.1 V
Rated capacity	38 Wh
Type	Lithium ions
Interchangeability	By authorized service provider

	Button cell battery CR1620
Type	Lithium metal
Interchangeability	By authorized service provider

Mains adapter (65 W) for the Tablet PC with/without the keyboard dock

Primary	
Nominal voltage	100 V to 240 V (automatic)
Nominal frequency	50 Hz to 60 Hz (automatic)
Maximum rated current	1 A
Secondary	
Nominal power	65 W
Nominal voltage	19 V
Max. rated current	3.42 A

An additional mains adapter or power cable can be ordered at any time.

Mains adapter (90 W) for the Tablet PC with cradle

Primary	
Nominal voltage	100 V to 240 V (automatic)
Nominal frequency	50 Hz to 60 Hz (automatic)
Maximum rated current	1.5 A
Secondary	
Nominal power	90 W
Nominal voltage	19 V
Max. rated current	4.74 A

An additional mains adapter or power cable can be ordered at any time.

Cradle (optional)

Electrical data	
Protection class	II
Ports	
Docking port	7-pin
Display port	1 x
VGA monitor port	1 x
Maximum resolution on an external monitor	1920 x 1200 (VGA or display port)
USB (Universal Serial Bus)	3 x USB 3.1 Gen1 (Type A)
LAN port	1 x
Security Lock device	1 x
Ambient conditions	
Environment class DIN IEC 721	7K1
Mechanism class DIN IEC 721	7M2
Operating temperature	5 °C .... 35 °C /41 °F .... 95 °F
Transport temperature	-10 °C .... 60 °C / 5 °F .... 140 °F
Relative humidity	20 % ... 80 % (no condensation)
Operating height	up to 2000 m

Keyboard dock (optional)

Electrical data	
Protection class	II
Ports	
Docking port	7-pin
LAN port	1 x
Environmental conditions	
Environment class DIN IEC 721	7K1
Mechanism class DIN IEC 721	7M2
Operating temperature	5 °C .... 35 °C / 41 °F .... 95 °F
Temperature during transportation	-10 °C .... 60 °C / 5 °F .... 140 °F
Relative humidity	20 % ... 80 % (no condensation)
Operating height	up to 2000 m

Manufacturer’s notes

Disposal and recycling

If the battery is not replaceable by the user, have it replaced and disposed of by an authorized service provider.

You can find information on this subject on your notebook or on our website ("https://www.fujitsu.com/emeia/about/local/csr/recycling/").

Electrical safety including ergonomic requirements (GS, depending on the device)

Please refer to the associated data sheet to establish whether the model variant of your device has GS certification. You can find further information on the Internet at "http://www.fujitsu.com/fts/products/computing/pc/tablets/datasheets".

Intended viewing distance	300 mm as a hand-held product. A monitor and a keyboard should be connected externally for use in an office.

SAR limit value (Specific Absorption Rate)

The SAR limit value < 2W/kg is complied with.

Other certification markings

Any other certification markings are listed in the "Manual Appendix - Additional Certifications" supplement.

If such markings are available, you can find the supplement on the Internet at "http://support.ts.fujitsu.com/Manuals/" with the Operating Manual for your device.

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